Lexicography in West Africa: Preparing a Bilingual Kisi-English Dictionary

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Abstract: This paper presents some of the issues involved in preparing a bilingual dictionary for Kisi, an underdocumented language spoken in West Africa. Because the language possesses little in the way of literacy materials, fundamental issues as to orthography, word division, etc., had to be considered. In addition, no grammar of the language (or its closest congeners) was available and thus basic grammatical analysis had to be performed simultaneously. I briefly consider some of these problems, discussing the use of the lexical data base programs known as LEXWARE. I then focus on the specific problems raised by the expressive word class known to Africanists as ideophones. The conclusion, in the form of advice to future lexicographers of such languages, is that before undertaking such an endeavour, one must seriously assess its feasibility.

Keywords: ATLANTIC LANGUAGES, BILINGUAL DICTIONARY, COMPUTER SOFTWARE, EXPRESSIVE LANGUAGE, IDEOPHONES, KISI, LANGUAGE VARIATION, LEXICOGRAPHY, PHONOLOGY, PRAGMATICS, SEMANTICS

Opsomming: Leksikografie in Wes-Afrika: Die voorbereiding van 'n tweetalige Kisi-Engels-woordeboek. In hierdie artikel word sommige van die kwessies in verband met die voorbereiding van 'n tweetalige woordeboek vir Kisi, 'n swak gedokumenteer-de taal van Wes-Afrika, bespreek. Omdat Kisi oor min literêre materiaal beskik, moes fundamentele kwessies oor byvoorbeeld ortografie en woordskeiding in ag geneem word. Boonop was geen grammatika van die taal (of van 'n aanverwante taal) beskikbaar nie, en moes 'n basiese grammaticale analyse terselfdertyd uitgevoer word. Ek beskou kortlik enkele van hierdie probleme en bespreek die gebruik van die leksikale databasisprogramme bekend as LEXWARE. Daarna kon­sentreer ek op die spesifieke probleme veroorsaak deur die ekspresiewe woordklas wat onder Afrikaniste as ideofone bekend staan. Die gevolgtrekking waartoe in die vorm van advies aan toe­komstige leksikografre van soortgelyke tale gekom word, is dat 'n deeglike lewensvatbaarheids­ondersoek eers nodig is voor die aanpak van so'n woordeboekonderneming.

Sleutelwoorde: ATLANTIESE TALE, EKSPRESSIEWE TAL, FONOLOGIE, IDEOFONE, KISI, LEKSIKOGRAFIE, PRAGMATIEK, REKENAARPROGRAMMATUUR, SEMANTIEK, TAAAL-VARIASIE, TWEETALIGE WOORDEBOEK
1.0 Introduction

In West Africa many languages possess little in the way of lexicographic materials, in fact, little in the way of any written materials. This is particularly true of the less widely spoken languages belonging to the Atlantic Group of Niger-Congo, the latter being the phylum containing two-thirds of Africa's languages (Bendor-Samuel 1989). The position of Atlantic within Niger-Congo is shown in (1). Atlantic languages are only distantly related to the Bantu languages of southern Africa, all of which belong to Benue-Congo.

(1) Atlantic within Niger-Congo (Williamson 1989: 21)

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Niger-Congo

<table>
<thead>
<tr>
<th>Mande</th>
<th>Atlantic-Congo</th>
<th>Kordofanian</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atlantic (?)</td>
<td>Volta-Congo</td>
<td>Ijoid (?)²</td>
</tr>
<tr>
<td>Kru (New)</td>
<td>(New)</td>
<td>Dogon (?)</td>
</tr>
<tr>
<td>Kwa</td>
<td>Benue-Congo</td>
<td></td>
</tr>
</tbody>
</table>

Gur Adamawa-Ubangi
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The Atlantic language on which I focus is Kisi, a member of Atlantic's Southern Branch, spoken primarily in the Republic of Guinea but also in Sierra Leone and Liberia. The display in (2) shows Kisi and its closest relatives.

(2) The position of Kisi within Atlantic (Childs 1993b)

1. Northern Branch
   A. Senegambian languages: Fula, Serer, Wolof
   B. Cangin: Lehar, Safen, Non; Ndut, Falor
   C. Bak: Diola, Manjaku, Mankanya; Papel, etc.
   D. Eastern Senegal-Guinea: Tenda, Biafada, etc.
   E. Nalu, Mbutungish, Baga Mboteni
II. Bijago

III. Southern Branch
   A. Mansoanka
   B. Mel languages
      1. Baga Binari, Landuma, Temne, etc.
      2. Bulom: Mmani, Sherbro, Krim, Bom; Kisi
      3. Gola C. Limba

Only a few Atlantic languages possess anything in the way of written materials. The exceptions are the more widely spoken languages such as Fula, Wolof, and Temne. For the less widely spoken varieties (some of which may be "dying" or already "dead", e.g., Krim of the Southern Branch (Heine 1970: 145)), written materials, if they exist, are rudimentary. They have been assembled by individuals with little linguistic much less lexicographic training, compiled primarily to assist nonnative speakers in learning a language or in translating religious works and educational materials. This paper presents some of the problems involved in developing a dictionary for such a language.

The first point that needs to be made is that compiling a dictionary is a monumental task in terms of both time and resources. It should not be undertaken without some foreknowledge, even with all the new software and miniaturized hardware to assist in the task. Nonetheless, lexicography is a field well worth exploring, particularly in terms of probing a culture and discovering the mechanics of a language's operation. From a linguistic perspective one learns the centrality of the lexicon to a language and confronts the incredible variation that forms a part of all speakers' competence.

Crucial to any lexicographic undertaking is identifying the audience, for there are many forms a dictionary can take. Besides the monolingual vs. bilingual distinction, a dictionary can, for example, appeal strictly to the linguist. An example of such a work is A !Koč Dictionary, in which the entries are arranged phonologically because "the Dictionary was initially compiled as a resource for Khoisan phonologists and comparative linguists" (Traill 1993: 3). Entries are ordered by phonological classes rather than alphabetically: clicks precede non-click stops, which precede fricatives, etc. The sort of dictionary I set out to compile aimed at an English-speaking mostly non-Kisi audience, although literate Isis would certainly find the work of use.

Concomitantly with compiling a dictionary, any lexicographer must be involved with issues in language standardization (e.g., Fasold 1984), often more of a political than a linguistic activity (e.g., Eastman 1992). Other written materials exist, featuring more than three different orthographies (the form of which could at least be partially predicted on the basis of knowing who the colonizer was (cf. Awak 1992)). However, none of these orthographies had been extensively supported (cf. Heine 1992 for a different report on the Kisi spoken in Guinea) and thus established conventions could be balanced against
linguistic considerations. The dictionary was allowed to use a roughly phone­
mic orthography.

After a brief summary of the dictionary's history, I turn to some of the
more technical aspects, concentrating in some detail on ideophones, an aspect
that provides all Niger-Congo lexicographers with challenges and one that has
not been satisfactorily resolved to date.

2.0  Project background

In 1979 I began to study Kisi as a linguistic object, having already learned to
speak it in a sort of functional way some years before. Fieldwork began in 1983
when I studied the linguistic importance of Kisi for the pidgins used by Kisi
people in the area where Guinea, Liberia, and Sierra Leone come together. An
awareness of my ignorance of Kisi grammar recommended studying Kisi itself.
Because of the difficulty in securing support for work on "minor" languages6,
however, since then I have been able to work on the dictionary in only a
desultory manner. More discouraging is that the grammar and dictionary need
checking with native speakers, a project which can be carried out only with
some change in the political situation for the past several years have seen the
Kisi area of Liberia racked with civil war.

I give this background information to inform the reader of the consider­
able persistence that is required to complete a project of this nature7. Such an
undertaking should be begun only with a realistic assessment of the pragmatic
aspects. The technical aspects of preparing a dictionary for a little known lan­
guage, to which I now turn, also present a challenge, but one which is much
more fulfilling and susceptible of resolution.

3.0  Some technical issues

Technical issues involve not only the choice of recording equipment, computer
hardware and software, etc., but also purely linguistic, even theoretical,
choices, e.g., the treatment of clitics, morphophonemic variants, etc. I give brief
details of equipment choice and of linguistic decisions in this section, expatiat­ing
somewhat on the challenge ideophones pose to the conscientious lexicog­
rapher.

3.1  Hardware and software

I omit discussion of some of the more obvious and common concerns and turn
first to several resources that proved valuable to determining the sort of soft­
ware and hardware needed for lexicographic work. In the way of preamble, it
should be noted that I started with the collection of data in a distant and somewhat inaccessible locale. This fact determined many of my choices. Works I found particularly helpful, aside from the standard lexicographic works, e.g., Zgusta 1971, Hartmann 1983, came from such missionary organizations as the Summer Institute of Linguistics (SIL) and the Lutheran Bible Translators (LBT), e.g., Hughes 1987, Bartholomew and Schoenhals 1983. Members of the latter organization had helped me even before I made my first trip back to West Africa (and have provided consultation since). The JAARS Center, a support organization for both SIL and LBT, also made available relevant reference materials and provided advice on the technical side of computer work in the field.

In so far as the actual equipment one should use, a computer (or two) is absolutely indispensable. Portability is often crucial; fortunately, there are many excellent laptops on the market at prices that continue to fall and with power that continues to increase.

With regard to software, at the time I was preparing for fieldwork the most widely used software designed for linguists was the lexical database system LEXWARE (Hsu 1990). Its appeal was its linguistic orientation and the fact that it had already been used on ShiNzwani, a Bantu language closely related to Swahili and typologically similar to Kisi. LEXWARE is described as,

a package of programs designed to help linguists compile and manage files of lexical data. It is oriented toward compilation and exploitation of a lexical file as a RESOURCE for further investigation into aspects of a language and culture, e.g., phonology, lexicon, grammar, semantics, ethnography, etc. (Hsu 1990: 1).

LEXWARE is both useful and powerful. It performs all the tasks expected of such software, chief of these being sorting and organizing the data in a perspicuous fashion. It furthermore generates a reverse dictionary, albeit more of an index than a real dictionary. The relative simplicity of its programs allows for a great deal of customization.

One great virtue of LEXWARE, because of its wide use by linguists and extensive documentation, is that it forces the compiler into analysing the language in detail and provides ample guidelines for doing so. It also forces one into making early decisions as to grammatical categories and structures. A virtue of its versatile (and simple) architecture allows early (wrong) decisions to be changed with relative ease as one's analysis and knowledge of the language proceeds.

A weakness, however, that all lexicographers must consider, is that LEXWARE is not designed for publishing dictionaries, although the programs have been used for such purposes in many cases. It does not work on data with embedded word-processing codes but rather requires ASCII-formatted text. As can be seen in Appendix A (and (4) below), for example, Kisi tones
have been represented as post-vocalic slashes and mid vowels as upper case "o" and "e". One can certainly enter the data using a word-processor but must make sure to feed it to the programs (performed in batch mode) only in DOS.

Additional details of the programs can be found in Kari 1989, which describes their application to Ahtna, an Athabaskan language of Alaska. SIL software such as IT, an interlinear text-processing program (Simons and Versaw 1992), and SHOEBOX, a data management program (Wimbish 1990), are other alternatives that should be considered. I now give a few details to illustrate the use of LEXWARE.

The lexical data base on which the LEXWARE programs operate is organized into what are called "bands" of information that are tied to a "headword" or sub-entry within that headword's entry. I give an (abbreviated) example of the sorts of information that can be encoded in (3). The band denoted by "der", for example, contains derivationally related words that would not be listed as sub-entries; "lx" states whether the entry is a compound, a word, an affix, etc.

(3) Band name abbreviations and brief characterizations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>headword</td>
<td></td>
</tr>
<tr>
<td>ps</td>
<td>part of speech</td>
</tr>
<tr>
<td>df</td>
<td>definition</td>
</tr>
<tr>
<td>wr</td>
<td>written sources</td>
</tr>
<tr>
<td>vp</td>
<td>phonetic and morphophonemic variants</td>
</tr>
<tr>
<td>vd</td>
<td>dialectal variants</td>
</tr>
<tr>
<td>der</td>
<td>derivationally related words</td>
</tr>
<tr>
<td>lx</td>
<td>lexical information, size of the unit</td>
</tr>
<tr>
<td>my</td>
<td>morphological information</td>
</tr>
<tr>
<td>syn</td>
<td>syntactic information</td>
</tr>
<tr>
<td>sem</td>
<td>non-definitional semantic information</td>
</tr>
<tr>
<td>bk</td>
<td>background information, encyclopedic</td>
</tr>
<tr>
<td>il</td>
<td>illustrations</td>
</tr>
<tr>
<td>clc</td>
<td>collocational, idioms</td>
</tr>
<tr>
<td>dsc</td>
<td>discourse properties</td>
</tr>
<tr>
<td>usg</td>
<td>usage</td>
</tr>
<tr>
<td>sl</td>
<td>sociolinguistic</td>
</tr>
<tr>
<td>prg</td>
<td>pragmatic information</td>
</tr>
<tr>
<td>ex</td>
<td>existential status</td>
</tr>
<tr>
<td>ety</td>
<td>etymological</td>
</tr>
<tr>
<td>sr</td>
<td>source</td>
</tr>
<tr>
<td>nt</td>
<td>notes</td>
</tr>
</tbody>
</table>

In (4) I give a much-abbreviated sample entry to show how Kisi noun classes are represented. The stem here is sīf- 'orange', and it can take three different
noun class markers (suffixes) and mean 'orange tree', 'orange (the fruit); orange juice', and 'drop of orange juice'. The first line contains the headword, the second indicates its part of speech, here a noun belonging to the o class, the third line gives a definition, etc. The asterisks are markers for the reverse sort program "INVERT", and the non-alphabetic symbols illustrate the sorts of conventions that have to be adopted because the programs work on ASCII text only. The symbols "&", "%", and "|" indicate typographic directions. For example, "%" indicates that the following string must be italicized. Note also how sub-entries are preceded by two periods; sub-listings may be extended down to any number of levels. Alternatives for an entry are denoted by numbers, as in "1df" and "2df" below.

(4) Sample entry

.hw &si/a/u\wo/
ps n &o
df *orange tree (%*xylopia aethiopica !)
wr TSL: siawo
lx word
sr TM
..pl &si/a/u\wa/ng
ps n &ma
1df *fruit of the orange tree; *orange; *orange juice
2df *orange *tree
..sg &si/a/u\le/ng
df *fruit of the orange tree; *orange; drop of *orange juice
ps n &le

Appendix A contains a sample page from a formatted version of the data base; Appendix B has a page from the English index. The LEXWARE programs can also sort bands and produce statistics on the data base.

3.2 Linguistic issues

In this section I adumbrate the linguistic issues that I found most challenging in compiling a Kisi dictionary.

Lexicography and grammar. Certainly one has to begin lexicographic work with a thorough knowledge of the target language's grammar, yet this is hardly an attainable object in any reasonable period of time. This knowledge must reach a fairly intimate level. At the same time one has to be familiar with the analytic tools, the formal representations, and the typological possibilities for
language in general. A trade-off exists between the two, embodied in what could be called, "The lexicographer's paradox", given in (5).

(5) The lexicographer's paradox: sophistication varies inversely as to intimacy

a. The more sophisticated one becomes in one's approach to language, the less likely it is that one will be intimately familiar with a language other than one's own.

b. The more intimately one knows a language, the less likely one is to be familiar with alternative approaches, theories of language and linguistic analysis.

Dictionary and encyclopedic knowledge. One also has to ponder the issue of what sort of information should be included and what excluded. One criterion for that selection is the dichotomy between what has been called denotation and connotation, sense and reference, and so on. Should one exclude encyclopedic knowledge in a dictionary entry? Where in fact is the boundary between dictionary and encyclopedic knowledge? It is generally agreed upon that the knowledge of the semantics of a language — properly codified in something like a dictionary — is distinct from that knowledge of the real world, which belongs in an encyclopedia alone (Haiman 1980: 331). For example, Bloomfield (1933, as discussed in Haiman 1980) sees no precise way of defining words such as 'love' and 'hate'. In other words, at least in this case, there is an equation between semantics and knowledge of the world. The easy answer to the lexicographer's dilemma is to exclude real-world knowledge, but often that knowledge is necessary, particularly when dealing with an "exotic" language and culture (cf. Busane 1990: 33-34). In the Kisi dictionary, I have chosen to include all cultural information that would not be of general knowledge to an "outsider". For example, details of upland rice cultivation procedures are included as are procedures of the Poro and Sande (secret initiation societies for men and women respectively).

Lumping and splitting. One antinomy basic to linguistic analysis is that between those who seek to maximally differentiate and those who look for similarities and seek to group exhaustively. This tension has played itself out dramatically, for example, in the controversy surrounding work on the classification of Amerindian languages, e.g., between Campbell (a splitter) and Greenberg (a lumper) (see Matisoff 1990 for discussion). This issue manifests itself in decisions when (grammatically) subclassifying lexical (as opposed to functional) items. For example, in most NigerCongo languages the noun-class or gender systems allow for an easy categorization of nouns on morphological grounds (see (4) above), but verbs present problems. One has to consider
argument structure, allowable complements, etc., and identify when colloca-


tional restrictions are determined semantically rather than syntactically.

Ideophones. Ideophones pose enormous problems to the lexicographer be-

cause of their monumental variation and semantic indeterminacy. The first

problem, however, is their identity and coherence as a category. All words

vary and likely form only prototype (as opposed to discrete and invariant) cat-
egories (e.g., Labov 1973), and ideophones form decidedly diffuse ones. Cross-

linguistically ideophones may constitute one syntactic category, may be sub-
categorized in another, or may be found in multiple word categories. Yet in all

of these cases, within a particular language, there is shading off into other

word categories, or a "squishiness" (Ross, e.g., 1972) to the ideophone category

identified.

Formally ideophones vary a great deal, which variation can be interpreted

as neutralizing phonological contrasts operant elsewhere in the language. I
give an example in (6) of a set of ideophones all of which have the same

meaning.

(6) Lumping "word clusters" in Gbeya / Gbaya (Samarin 1991)

ham hem hal hEl pal pEl 'light (in weight)'

This is much like, from a diachronic perspective, what Bolinger (e.g., 1940) calls
"accretion", the gradual snowballing or clustering of meaning about a particu-

lar soundmeaning correspondence, forming a phonoesthetic partial often

known as sound symbolism, a normal process in language change. What's

worse with regard to the example in (6), some speakers will regard the mini-

mally different forms as different words; others will see them as the same

word.

The solution for a splitter is to regard each slight variation as a different

word. This is the approach adopted in Doke et al.'s (1990) Zulu dictionary, e.g.,
gqamfu, gaqshu, gqimfu, and gqunsu all have a gloss, 'of snapping'. The lexicog-

raphers proliferate entries even further by regarding doubling or reduplication

as representing a separate form, e.g., both cwayi and cwayicwayi, separate en-

tries, have glosses 'of blinking'. Reduplication is commonly associated with

ideophones and with expressive language in general. That this approach is

characteristic of the dictionary can also be seen in the decision to list both a
derivational affix and at least some of the forms both with and without that af-

fix.

Lumping, on the other hand, which approach the Kisi dictionary follows,

seeks to recognize such clusters explicitly and provide them with a single (full)

entry. The alternates cross-reference the head entry (there is a band "cr" not

shown in (3)) and are listed as either sub-entries or phonological variants.
What is additionally problematic to the lexicographer from a phonological perspective is ideophones' use of phonemes not constituting part of the phonological system of the matrix language. For example, some Zulu speakers reject ideophones with [r] as "not Zulu words". In addition, ideophones exploit prosodic resources, e.g., an expanded pitch register, breathy or creaky voice, not easily represented in familiar orthographies. Is it the lexicographer's task to faithfully record these features? If so, how?

Semantically, ideophones can do as little as simply underscore the meaning of the verb with which it has a close collocational association. Just as often they go to the other extreme and carry the entire semantic import of the predication. This occurs most transparently when they are introduced by a semantically bleached "dummy" verb such as thi 'say' in Zulu (e.g., Von Staden 1977: 214), the cognate ri in Venda (Poulos 1990: 422), or go in English, 'Tucker ran lickety-split down the road.' The latter case is not so problematic, but what does one do when the ideophone seems to have no independent meaning?

Another problem is semantic variation. Sometimes the form will hold constant and the meanings will change slightly from speaker to speaker and from dialect to dialect (see "enchainment" or "abduction" in Haiman 1985). Admittedly these same processes are at work in other parts of the language, but within the ideophonic subsystem they are more extensive and more frequent.

Another issue arising in the inclusion of ideophones in a dictionary is their troublesome pragmatics. In the case of ideophones, it is often the case that meaning is determined situationally by speaker and hearer. This becomes most apparent in performance situations when a narrator publicly presents a story (Noss, e.g., 1988, Poulos 1990: 417). In much the same way as gestures (see below), ideophones are embedded in social interaction. Determining the meaning of ideophones can prove incredibly frustrating to the lexicographer since the meaning of an ideophone requires a context for interpretation much more than other words. In addition, ideophones require for their understanding an intensive knowledge of the language, a knowledge often inaccessible to an outsider (Samarin 1967).

The close functional relationship of ideophones to gestures demonstrates some further problems. Gestures are poorly understood at best and have not been considered part of language (as have not ideophones for some), yet often they form a necessary concomitant to an ideophone. Gestures are decidedly a part of language, as McNeill has convincingly demonstrated: "gestures are an integral part of language as much as are words, phrases, and sentences — gesture and language are one system" [author's italics] (McNeill 1992: 2). That gestures and ideophones are closely linked has been commented on by many, e.g., Alexandre 1966. In a study of Japanese "mimetics", roughly comparable to ideophones, Kita finds that mimetics exhibit close synchrony with the stroke portion (the essential part) of gestures 98% of the time (Kita 1992); Zulu
ideophones exhibit the same sort of synchrony in a pilot study I have performed. How then must gestures be represented?

Because of these many problems, ideophones have often been ignored or omitted. The approach often taken is to ignore them, e.g., Munro and Gaye 1991, or consider them only peripherally (Institute for Swahili Research 1981). Such an approach (and it has also been followed in grammatical descriptions) is irresponsible, especially when ideophones constitute a significant portion of a language's lexicon (5,000 in Gbeya (Samarin 1978), or constitute an open and productive class, e.g., Igbo (Maduka 1983-84).

4.0 Conclusion

What I have tried to do in this paper is give a personal and partial account of work on the lexicon (and grammar) of Kisi. I have exemplified several of the issues that arise in the process of compiling such a work, hinting that the theoretical or purely lexicographical issues admit to easier resolution than the purely pragmatic ones. This emphasis should be interpreted as a warning, but these caveats should not dampen anyone's enthusiasm. Numerous languages, particularly in Africa, have need for the attention of a dedicated lexicographer. Admittedly there is a high learning curve to the work, but the knowledge and output are both very satisfying. Another consolation is that once one has completed a dictionary, the next one is much, much easier.

Endnotes

1 Hartmann 1990 contains a sketchy and perhaps uneven assessment of lexicography in Africa. See Prinsloo 1991 for a review.
2 Note that the question marks represent uncertainty on Williamson's part.
3 Childs 1993b contains a brief survey of Atlantic.
4 See Samuel Johnson's definition of a lexicographer as "a harmless drudge". These are not the only rewards; there is often a small but appreciative audience. There may be expressions of gratitude from the speakers of the target language and from expatriates, for example, Peace Corps volunteers and missionaries. In addition to the expected benefit to linguists of such work, one is able to contribute to such projects as the Useful Plants Project of the Royal Botanic Gardens at Kew (United Kingdom).
5 Although Sierra Leone was colonized by the English and Guinea by the French, one cannot really say that Liberia was colonized by the Americans. Nonetheless, American influence has been pervasive and certainly differs in its effect on the Kisi orthography used in Liberia. There are actually two different systems in Liberia, one developed by the Anglo-American Church of England missionaries in Bolahun, the other by the American Lutherans in the Foya area.
As recent exchanges in linguistics journals indicate, e.g., Hale et al. 1992, and exchanges on the "Linguist" electronic bulletin board document, there is concern for documenting the less widely spoken languages (cf. Ladefoged 1992).

The reader might want to compare this account with Kari's (1989) project history of his work on Athna, an Athabaskan language of Alaska, a decidedly more stable area than Liberia.

I should also mention the not inconsiderable assistance provided me by Stanley Cushingham of the Center for Applied Research in African Languages (New Haven, CT (USA)).

Their particulars are, International Computer Services, JAARS Center, Box 248, Waxhaw, NC 28173 (USA); (704) 843-6000.

One wonders what Murray would have been able to accomplish had he had access to a computer in his compilation of the OED!

Kari's dictionary (the Athna-English portion) contains some 6,000 lexical entries and over 9,300 example derivations and sentences. The English-Athna side has 10,500 entries.

Bands can be proliferated at will and not all entries will have all bands filled. One lexical data base using LEXWARE has over 300 bands (Hsu 1990: 23); Kisi now has forty-eight.

I assume here some familiarity with ideophones. For an early survey of Bantu ideophones, see Samarin 1971. Childs 1993a contains a more recent and extensive discussion.

In a Gbeya (=Gbaya) French-English dictionary, ideophones constituted 24.6% of the lexicon (8,544 entries) (Noss 1985: 242).

References


Lexicography in West Africa


http://lexikos.journals.ac.za


Appendix A: Page from lexical data base

. kpe/e/la/a/
  ps n &o kpe/e/la/
  df a species of *tall *oil *palm *tree (%*elaeisI), a
   tall, very straight palm tree with a smooth trunk and
   sometimes
   no fronds
  wr D: gbela, kpela 'a tall oil-palm'; gbela pOmbO 'a
   medium-sized oil-palm, climbable with ease'; H: kpe/la/a/
   kpe\la/\ng; B: kpelaakpelang
  der &kpe/le/-kpe/le/1 very straight
  lx word
  sr TM, MN, PF
  ..pl kpe/e/la/la/ng
  ps n &la
  sr TM, MN, PF
  nt final tone is low when pronounced in isolation

. kpendekelio
  ps n &o
  df a species of *plant (%*cissus gracilis)
  wr D: kpendekelio
  lx word
  sr not known to TM

. kpendo
  ps n &o
  df a species of *plant (%*digitaria exilis, %*justicia insularis)
  wr D: kpendo- %digitaria exilis1; JB in HB:
   kpendo %justicia insularis1 in Guinea
  lx word
  sr not known to TM

. kp\E\i/y/o/
  ps n &o
  df a species of *plant
  lx word
  sr TM

. kp\E\lE/ngkp\E\lE/ngndo/
  ps n &o kp\E\lE/ngkp\E\lE/ng
  df a species of *tree (%*anthocleista l spp)
  wr D: kp\E\lE-kp\E\lEndo, kp\E\lE-kp\E\lEndo-lando
   (%*anthocleista l), kp\E\lE-kp\E\lEndo-piado (%*anthocleista
   nobilis l
   and %*anthocleista vogelii l); TSL: kp\E\lE-kp\E\lEndo
  lx word
  my redup
  sr TM
  ..pl &kp\E\lE/ngkp\E\lE/ngnde/
  ps n &i

. kpE/ndE/i/le/ng
  ps n &o kpE/ndE/i/
Appendix B: Sample page from English index

KISI FINDER LIST

oryza
a species of rice (%oryza barthii l or %oryza stapfi l):
ma\ Haley ngba na\ wi\ E\ iy O\ ng, ma\ a\ la\ ngba na\ wi\ E\ iy O\ ng.
generic name for rice (%oryza sativa l), uncooked rice: ma\ a\ lo\ ng.

osbeckia
a species of plant (%osbeckia tuboloa l, %dissotos paucistellata l):
sandiyowo.

ottelia
a species of plant (%ottelia ulvifolia l): ko\ ma\ cu\ mja\ a/.

ouratea
a species of tree (%ouratea flava l): do\ ma\ pu\ a\ a/to\ o/m a\ a/.

outside
outdoors area, outside, yard, area immediately outside or encircling
one's house: bE/E\ la/ ng < bi/o\ O/.

pail :: ba/a/ wa/a/.

palisota
a species of plant (%palisota hirsuta l): tulokpello, tundui.

palm
a species of palm kernel oil from the oil palm (%elaeis l):
ba\ nya/ ng.
a species of plant, palm nut, wild (%Uvaria chamae l): koiyondue.
a species of tall oil palm tree (%elaeis l), a tall, very straight palm
tree with a smooth trunk and sometimes no fronds: kpe/e/ la/a/.
palm branch or leaf: &si\ O/ le/ ng.
palm branch, thatch, thatching material (%): si\ O/ O/.
palm fronds, especially those from a short palm tree, piassava palm:
kE/E/ le/ ng.
palm kernel or nut (kernel plus shell) of the oil-palm (%elaeis l)
fruit, shell quite hard and interior edible with a soapy taste:
kE/ mbE/ l/.
palm nuts, palm kernels: bE/ llo/ ng, bE/ llo/ ng.
palm oil residue, weak or watery liquid left over after palm oil has
been scraped off the surface of the large pot of water in which the
palm oil has been prepared: mbo/ o/ ya/a/.
palm wine derived from the piassava palm (%raphia vinefera l):
l\ mbi/ a/ ng.
raffia, palm thatch stripped from the leaves of a species of plant
(%raphia gracilis l): ki/o/o/.

panicum
a species of plant (%panicum breviflorum l) and probably other similar
grasses: denoyeno.
a species of plant (%panicum dinklagei l): yeno.

papaya
papaya (%carica papaya l): calekOngguluma.
papaya or pawpaw tree, pumpkin, anything of a gourd-like shape
(%carica papaya l): ca\ le/ ng.