LT Basic numerals

A descriptive study of the Etulo numeral system

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Abstract siend soil mod signame value grivers tol solur nortememon This paper is based on an ongoing study on Etulo. It has identified the basic numerals and the processes involved in deriving the secondary or higher numerals from the basic ones. The paper goes to describe the processes of computation. The processes are found to be cumbersome, as opposed to the decimal system which has been adopted in Igbo. The paper therefore sgests the adoption of the decimal counting system.

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1.0 Introduction

100 /den/ 'handred' Ltulo is a member of the luomoid group of the Benue-Congo family (Gordon, 2005). According to Project (2009), Etulo has about 16,000 speakers, located in Benue and Taraba States of Nigeria. The language is spoken in two council wards in Benue State - Etulo council ward and Kastina-Ala central ward. Such languages like Tiv, Idoma, Igede and Hausa are also spoken in these two council wards. In Taraba State, Etulo is spoken in Wukari. The Etulo are bilinguals, they speak Etulo, their L1 and Tiv, their L2. Tiv has come to acquire the status of a predator language, as many of the younger ones tend to use Tiv rather than Etulo. In other words, Etulo is endangererd. We hereby call for some intervention measures to salvage the language from endangerment.

This paper is based on an ongoing study on Etulo. The paper focuses particularly on the numeral system of the language. Cross linguistically, every human society makes use of words in its counting system. The set of words used in counting is referred to as numerals. The term 'numeral' refers to the representation of the symbols and figures which are long lasting and are usually accepted and recognized within the language group where they are developed. This paper, in addition to other things, highlights such representation as it applies to Etulo.

The next section shows a list of the basic numerals and the processes of computing the secondary or derived numerals from the basic ones. The following section is on the distributive and multiplicative numerals. The last section is Nnaerdi Azikiwe Uhiversity: Awka conclusion.

Anambra State, Nigeria

2.1 Basic numerals

Numerals are used to express numbers. A number is a conventional symbol that represents an amount or quantity. In English for instance, five is the numeral which expresses the number 5, and fifteen hundred or one thousand and five hundred are different numerals which express the number 1,500. In addition to each number having a unique representation, a numeral system has also a set of formation or computation rules for deriving other numerals from the basic ones. There are thirteen numerals which have been identified as basic. They are said to be basic in that all the other numerals are derived from them by means of computation rules. The basic numerals are listed as follows: 10 to 10 to

> to desert be cumb adopted decimal

1 /oniī/ 'one'	8 /èdʒata/ 'eight'
2 /èfà/ ''two' 3 /èta/ 'three'	9 /èdʒaānè/ 'nine' (17 ody) m hamaha 10 /ijwo/ 'ten' many i many hamaha
4 /ènè/ 'four' 5 èda/ 'five'	20 /òsù/ or /ɔŋwusē/ 'twenty' 100 /dèri/ 'hundred'
6 /èdʒi/ 'six' 7 /èdʒafà/ 'seven'	COOS According to Marke of Nigeria. The language

The basic numerals are made up of one through ten, twenty, hundred and thousand. The secondary or non basic numerals are derived by computation involving addition or multiplication, and even the combination of addition and multiplication. A similar computation process has been observed in Koring (Anagbogu, 2006). language, as many of the younger ones tend to use Tiv rather than Etulo, In other

2.2 Derivation of secondary numerals doubt ow bronggabas at older abrow

The process of deriving the secondary numerals is done by means of the following This paper is based on an ongoing study on Etulo. The salur noitamrob particularly on the numeral system of the language. Cross

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- iii. combination of addition and multiplication

2.2.1 Derivation through addition

The set of numerals from eleven to nineteen, and twenty one through thirty is addition is done twice. The numeral /òsù/ twenty does not feature beyond thirty nine, the variant /ɔŋwusē/ is used instead.

For the purpose of illustration and economy of space the first and last numerals in each set will be listed, leaving out the intervening numerals, since they share the same derivational process.

In the examples above, the sandwiched lexeme do marks addition and it is roughly glossed as plus. For instance, the numerals thirty is the sum of twenty plus ten. Similarly thirty one is the sum of twenty plus ten plus one or thirty plus one.

2.2.2 Derivation by multiplication and an left avoid estimate an attack of

Multiplication here is by concatenation, a morphological process which involves a linear ordering of elements (Lobner, 2002). In the examples that follow there is a linear placement of the multiplicand and the multiplier. There is no overt marker of multiplication, as is found in addition (sec 2.2.1).

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/dèri 100	X	èfà/ two hundred 2 = 200
/dèri 100	X	danour is done twice. The numeral Abandud at normal as 18 18 18 18 18 18 18 18 18 18 18 18 18
	X iii	
/dèri 100	X	èda/ five hundred .aasoom lancitavirob am 5 = 500 avais Vino do owiji
/dèri 100	x	èdzi/ six hundred 6 = 600
/dèri 100	x	èdʒafà/ seven hundred 7 = 700 ano-ymawi uno ob naov
/dèri 100	X	èdatá/ eight hundred 8 = 800 onu ob owu ob úzó
/dèri 100	x	èdzaānè/ nine hundred 9 == -vr 900
/dugu 1000	X	efal two thousand bandwiched les 0002 = 201
/dugu 1000	X 1 70	oughly glossed as plus For instance, the binswin is lower to the sum of mean 1 000,01 = '01

To illustrate the examples above, let us consider the composite /ɔŋwusē efa/ forty. This is interpreted literally as twenty multiplied by two (20 X 2). It is to be observed that the multiplicand, the first member of the composite, usually denotes a higher numeral than the multiplier. religitlum and the multiplier. residently and the multiplier. multipliention, as is found in addition (see

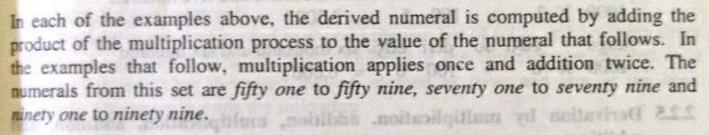
2.2.3 Derivation by multiplication and addition

The category of numerals derived through the processes of multiplication and addition can be grouped into two. The first group involves the processes of adding once and multiplying once. The second is derived by a combination of a series of multiplication and addition. The following set is derived by multiplying once and adding once: forty one to fifty, sixty one to seventy and eighty one to ninety.

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/ɔŋwusē 20			do ijwo + 10	do opiī/ fifty-one + 1 = 51
/ɔŋwusē 20			do ijwo + 10	do èdʒaãnè/ fifty-nine + 9 = 59
/ɔŋwusē 20			do ijwo + 10	do onii / seventy-one + 1 = 71
/ɔŋwusē 20			do ijwo + 10	do èdʒaānè/ seventy-nine + 9 = 79
/ɔŋwusē 20			do ijwo + 10	do opiī / ninety-one + 1 = 91
/ɔŋwusē 20	X	ènè 4	do ijwo do + 10 +	èdʒaānè / ninety-nine 9 = 99

To account for the derived numerals, the product of the multiplication process is added to the individual value of the subsequent numerals.

2.2.4 Derivation through multiplication, addition and multiplication

The numerals which belong to this category are derived by adding the product of the pair of composites made up of a multiplicand and multiplier. The following examples are illustrative.

2.2.5 Derivation by multiplication, addition, multiplication, addition, addition

The numerals nine hundred and ninety one to nine hundred and ninety nine represent the set of numerals derived by multiplication, addition, multiplication, addition, and addition. Observe the following:

Take for instance the number 991. It is derived by adding the product of each of the adjoining composites, which is then added to the values of the subsequent numerals.

odes to the individual value of the subrequent near

3.1 Distributive numerals

Distributive numerals are used to ascribe a property to individuals rather than to a group. This set of numerals is derived by reduplicating any of the basic numerals.

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3.2 Multiplicative numerals

Pagest, J. 2009, The US Centre for World Mission, C. A multiplicative numeral is used to express the number of folds, or how many times something happens or is done. Such numerals in the language are derived by a construction involving the word /akwo/, glossed as time, and any of the basic numerals. Examples include the following

lakwo onii/ time one once

lakwo èfa/

time two twice

/akwo èdzaānè/

time nine nine times

4.0 Conclusion

The paper has described the counting system in Etulo. Like most traditional counting systems, counting in Etulo appears to be cumbersome. In particular, the non-basic numerals are usually polymorphemic. In addition, they are derived by series of addition and multiplication processes. The adoption of the decimal counting system will make counting in Etulo to be less cumbersome.

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Notes

1. Low ['] and step [-] tones are fully marked, while high tone is unmarked.

2. There is no orthography for Etulo, hence the presentation of data in phonemic transcription.

3. The following Etulo informants are hereby acknowledged: Messers Clement Agyo, Peter Nyebe and Samuel Ando.

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numerals. Examples include the following

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