

Innovation and Creativity



















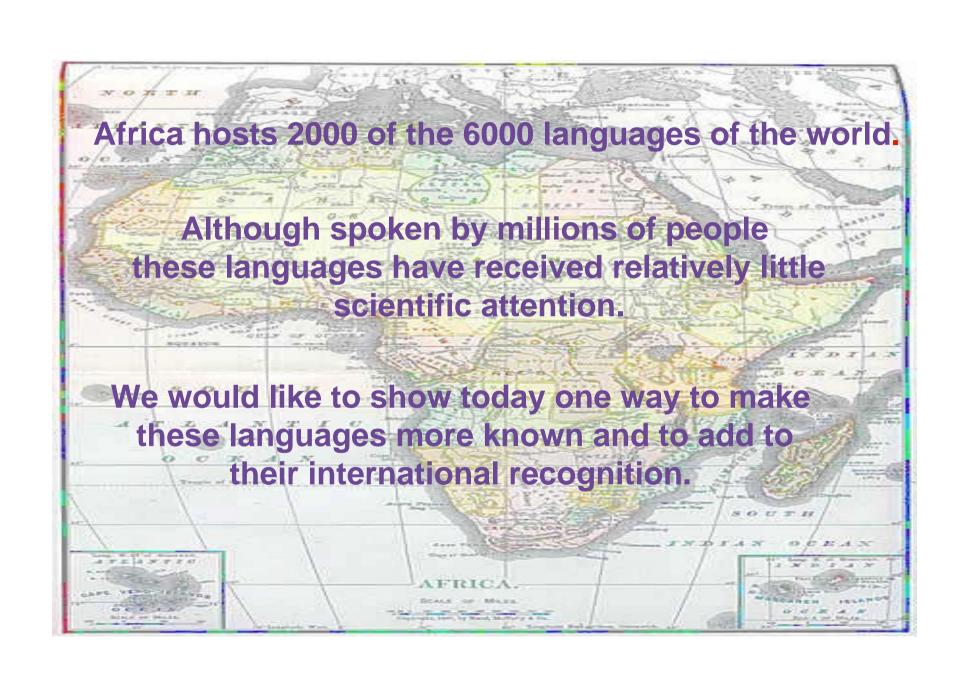




Typecraft Software for the documentation of minority languages

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First the tool:

TypeCraft and what it does

Overview of the talk

Second the matter at hand:

Hausa, Igbo and Yoruba are the three main languages of Nigeria, but also Èdó is a language of Nigeria.

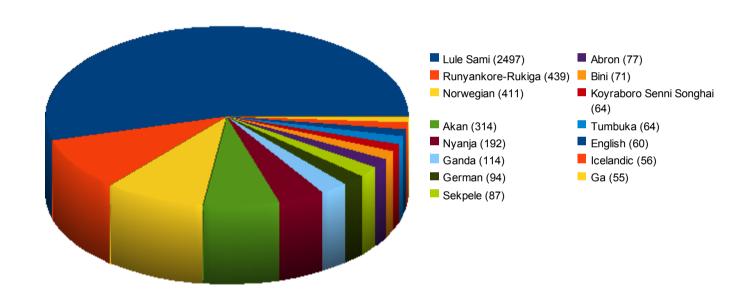
Studies like Ota's PdD thesis can enhance the recognition of the language and the people that speak it.

Science can boost a language and thus support the people that speak it!

Some facts...

Top 15 TypeCraft languages

(by number of phrases)



TypeCraft

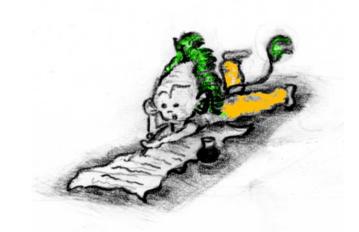
With TypeCraft the user adds linguistic annotation to written material which is stored in a relational database from where it can be retrieved using multiple views.



Texts as well as annotations are in Unicode. Annotated data can be exported to standard text editors (WORD, Open Office and LaTex) as well as to XML format. Archiving can be achieved through the export of XML with embedded DTD.

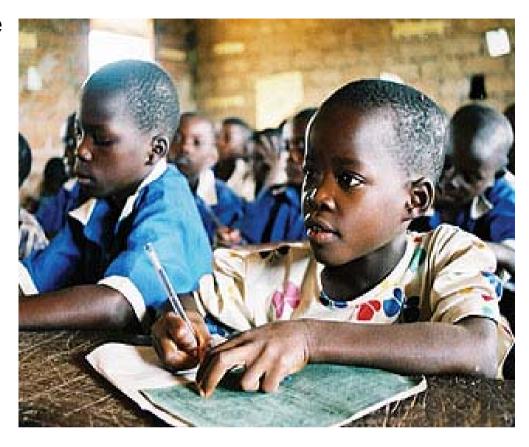
TC has been designed for projects on minority languages, joining linguists and native speakers. It is intuitive to use and allows wide and distributive usage.

TC uses PostgreSQL as database format and is written in Java. It can be freely used online with Mozilla Firefox, although at present a login is required. TC runs on a server owned by NTNU.



Science of language and language use

You think it is normal to learn in your own language.



In 1976 the Nigerian Educational Council suggested that also children speaking Èdó and others of the 9 major languages should be allowed to be taught in their own language in addition to the languages of national integration.

They do not!

Ota Ogie has worked on serial verb constructions (SVC) in Èdó and other African languages.

To the right you see the skeleton of an SVC.

Òzó lé	íz <u>è</u> ré						
Òzó	lé	íz <u>è</u>	ré	/NIDs VID	3.735		
òzó	lé	íz <u>è</u>	ré	DALL SE	X		
Ozo	cook.PAST	rice	<i>eat</i> .PAST		- / N		
PN	V	N	V	V' (NP	(NP)		
"Ozo c	rooked rice and a	te"		01 0000 11 1000 0000	101 March		
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				V	V		

To the left you see the annotated version of and SVC from Èdó, a language of Nigeria spoken by 1 Million peop

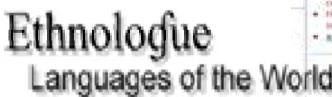
Through the creation of a universal meta-language, part of which you see here in the background, Èdó becomes accessible to all of us

Gbomo kpatuuu kpooo					1			
Gbòmò	kpá!túú		kpớô		/	1	_	
Gbòmò	kpá!tú	ú	kpố	ŝ	NP)	VP	- 1	rp.
person	do	NEG.AOR	pluck	NEG.AOR		\wedge		×
CN	V		V		V	(NP)	V.	(NP)
"A perso	n doesn't _i	prosper withou	t effort - i	no pain no gain"	- 1		11	
				Generated in TypeCraft.	V		V	

...and if we take good care of this structural data it will be preserved for many generations to come and with in our knowledge of the culture that created this language

Ethnologie com

Èdó has been documented over hundreds of years, but documents are either out of print or not easily accessible. Ota's thesis is the first one that will make annotated data from Èdó and other African languages directly accessible to researchers, teachers and students all over the world



Èdó a language of Nigeria ISO 639-3 (bin)





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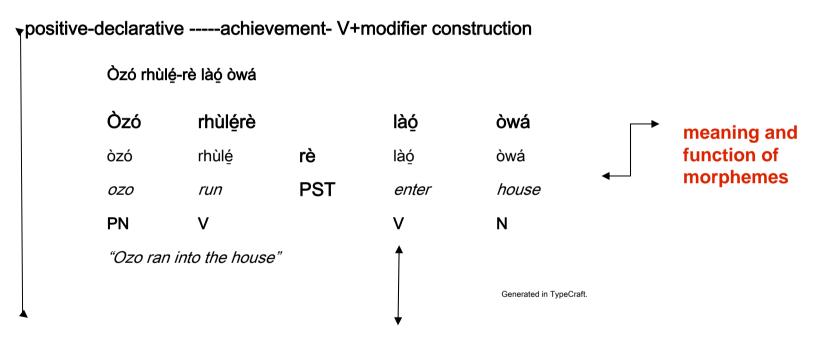
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How did TypeCraft help with linguistic research on Èdó and with the effort to make the language more known?





meta-information about sentences

grammatical categories

How did TypeCraft help with linguistic research on Èdó and with the effort to make the language more known?



In order to be understood not only by native speakers language has to be marked with symbols that represent the meaning and function of every unit. This can be done with TypeCraft

It offers a set of predefined symbols

Words, morphemes and whole sentences can be marked-up which allows for in-depth annotation.

Data produced in TypeCraft can be easily exported to other formats and to other applications.



You meet other people that care for languages and the people that speak them