Corpus-Based Typology (a qualitative/pilot approach)

Perspectives for cross-linguistic comparison

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Talk dedicated to Bernard Comrie MPI closing conference 1-3 May 2015













Issues broached

- Corpora as language-specific resources
 - how to make them relevant for Typology
 - pilot projects (methodological)
- From CorpAfroAs to CorTypo
 - evolution of project-design
 - from phylum-internal cross-linguistic comparison
 - to empirical typology based on unrelated languages
- Corpus Annotation
 - A crucial issue for queries
 - Different annotations for different purposes
- Categories
 - Language-internal and cross-linguistic categories
 - comparative concepts, semantic maps...
 - the issue of similarity/comparability

Spontaneous Spoken Corpora

- Language-specific resources by nature
- Traditionally used for analysis of languages (+ elicitation, input for Grammars)
- Also within Documentation Projects
 - DOBES, ELDP
 - Attempts to use them for Cross-linguistic comparison / Typology
 - Verb/Noun project (PI- F. Seifart)
 - Referentiality project (PI- C. Lehmann)
- Dedicated pilot projects (for cross-linguistic comparison)
 - CorpAfroAs, CorTypo (PI-A. Mettouchi)
 - . .

Annotation

- in view of broad uses : CorpAfroAs, CorTypo
- for a particular project: Referentiality, Verb-Nouns
- Differences
 - in granularity
 - in types of segmentation units
 - in number and types of tiers
 - in theoretical/methodological approach

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<u>http://corpafroas.huma-num.fr/</u>

https://www.benjamins.com/#catalog/books/scl.68/main



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Corpus-based Studies of Lesser-described Languages

The CorpAfroAs corpus of spoken AfroAsiatic languages

Edited by Amina Mettouchi, Martine Vanhove and Dominique Caubet EPHE (LLACAN), Paris / CNRS (LLACAN), Paris / INALCO (LaCNAD), Paris

This volume presents new findings based on the analysis of spoken corpora in thirteen different Afro-Asiatic languages - a unique endeavor in the domain of lesser-described languages. It will be of interest to corpus linguists, general linguists, typologists, and linguists specializing in Afro-Asiatic languages. In addition to the rarity of corpus studies based on endangered and lesser-described languages, the volume is remarkable due to its focus on the role of prosody in interaction with several other phenomena, including code-switching and borrowing. Phonology, syntax, and information structure are explored, and the issue of the elaboration of strategies for the typological comparison of corpora is addressed in several papers. The volume also contains a presentation of software development conducted within the scope of the CorpAfroAs project and based upon the widely used ELAN. The sound-indexed, and morphosyntactically-annotated corpora, with their OLAC metadata and several other deliverables can be accessed and searched at http://dx.doi.org/10.1075/scl.68.website.

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Bernard Caron

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Participants



- PI: Amina Mettouchi
- Engineering team: Christian Chanard, Coralie Villes, Huyen-Tô Dan-Rabier
- Experts: Bernard Comrie, Shlomo Izre'el
- Contributors: Azeb Amha, Alexandrine Barontini, Bernard Caron, Cécile Lux, II-II Malibert-Yatsiv, Stefano Manfredi, Amina Mettouchi, Christophe Pereira, Mauro Tosco, Graziano Savà, Marie-Claude Simeone-Senelle, Martine Vanhove, Angeles Vicente.



CorpAfroAs

- Phylum-internal cross-linguistic comparison
 - 1 hour (40mn monologal, 20mn dialogal) per language
 - 13 Afro-Asiatic languages
 - annotated on the same principles
 - same template for all the languages
 - functional annotation of morphemes
 - 1 morpheme = 1 gloss (ignore variation of readings)
 - » cf. IPFV regardless of progressive/habitual interpretation
 - 1 lexeme = 1 gloss
 - » cf. xdəm in KAB always 'make', regardless of contextual interpretation (make sthg vs. work)
 - part-of-speech information
 - free translation into English
 - same abbreviation for given gloss





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rx@SP	PRO	V13	PRO	PTCL		PRO	√24	PTCL	PRO	V13	//
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- ref identifier for the annotation unit (time-associated)
- tx transcription in broad phonetics into phonological words (SA)
 - **mot** intermediary tier with segmentation into morphosyntactic words (SS)
 - mb morphophonological transcription into morphemes (SS)
 - **ge** morpheme-by-morpheme gloss of mb according to the Leipzig Glossing Rules, expanded within the project (SA)
 - rx part-of-speech and other information relevant for retrieval purposes (SA)
- ft free translation into English (SA)

SA: symbolic association. SS: symbolic subdivision

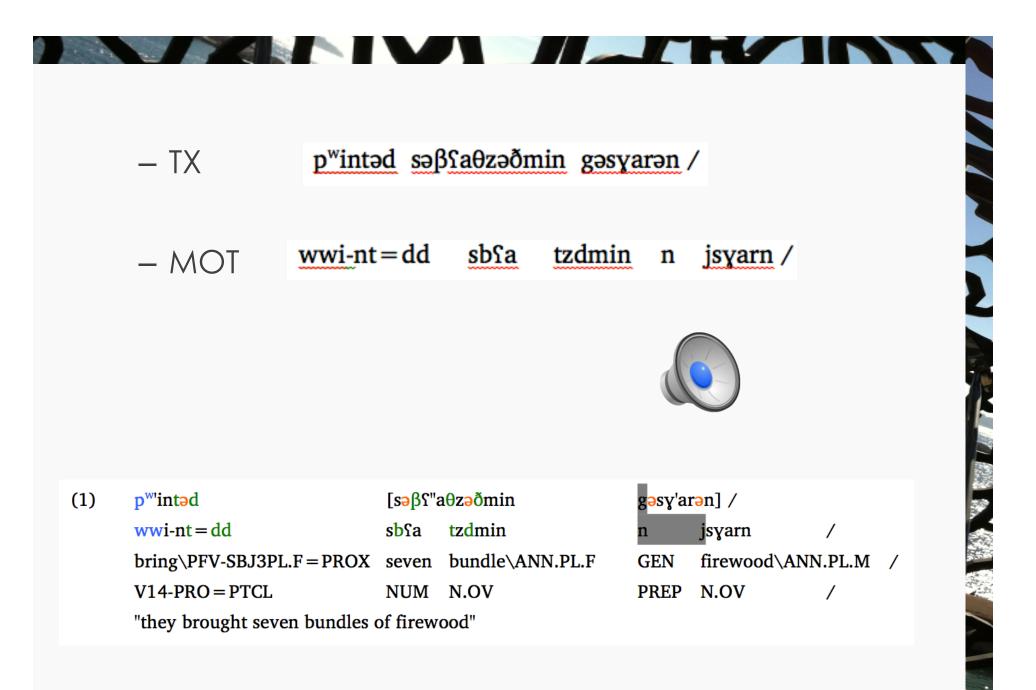
TX: transcription

- segmentation into prosodic units
 - terminal vs. non-terminal boundaries
- transcription in 'broad phonetics', into phonological words
- conversations into separate actors

ref@SP1	KAB_AM_CC	0NV_01_SP1	_212						KAB_AM_CO	KAB_AM_CONV_01_KAB_AM_CONV_01_SP1_214									
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ft@SP3 [27]															yes sh	e's one of Al	i's daughte	rs	

About TX

- No segmentation into syntactic units
- Phonological word : language-specific
- Possible queries given type of layout:
 - average length of Intonation Unit (ms)
 - number of phonological words per I.U.
 - -length of pauses, speech/pause ratio...
 - frequency of some phonemes
- comparison with MOT tier (morphosyntactic words)



GE and RX in ELAN-CorpA

Dev. by C. Chanard (LLACAN)

 Annotation Lexicon $(excerpt) \rightarrow$

• Glosses (excerpt)

CTP	Centripetal
CVB	Converb
DAT	Dative
DBL	Double
DECL	Declarative
DED	Deductive
DEF	Definite
DEICT	Deictic
DELAT	Delative case
DEO	Deontic modality
DEPMID	Deponent middle voice
DEPREC	Depreciative
DIFF	Diffusive
DIM	Diminutive
DIR	Directional
DIST	Distal
DISTR	Distributive
DITR	Ditransitive
DS	Different Subject
DTR	Detransitivizer
DU	Dual
DUB	Dubitative mood
DUR	Durative
ELAT	Elative case
EMPH	Emphatic

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1	ja		either	CONJ	
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9	trisiti		electricity\ABS	N.COV	
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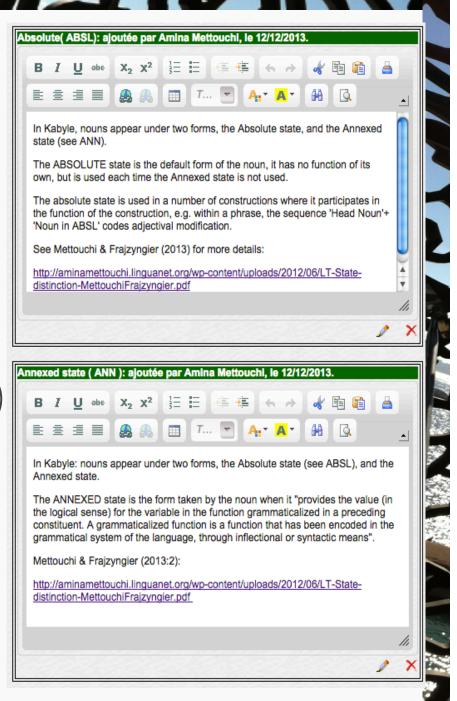
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Glosses

Consistent abbreviations

 language-internal
 definitions

example: Absolute and Annexed states in Kabyle (A. Mettouchi, working document)



Queries

- For the corpus author:
 - test hypotheses
 - discover new constructions etc.
 - unmediated access to the corpus
- For the end-user
 - language specialist :
 - similar queries as author
 - mediation through list of glosses
 - phylum specialist, or typologist: necessary mediation
 - cross-linguistic queries
 - mediation through grammars or grammatical sketches + list of glosses



CTP	Centripetal
CVB	Converb
DAT	Dative
DBL	Double
DECL	Declarative
DED	Deductive
DEF	Definite
DEICT	Deictic
DELAT	Delative case
DEO	Deontic modality
DEPMID	Deponent middle voice
DEPREC	Depreciative
DIFF	Diffusive
DIM	Diminutive
DIR	Directional
DIST	Distal
DISTR	Distributive
DITR	Ditransitive
DS	Different Subject
DTR	Detransitivizer
DU	Dual
DUB	Dubitative mood
DUR	Durative
ELAT	Elative case
EMPH	Emphatic

Martine Vanhove

Beja grammatical sketch

Beja grammatical sketch

Martine Vanhove (LLACAN - CNRS, INALCO, PRES Sorbonne Paris-Cité)



This sketch contains original material and analysis. The citation format is the following: Vanhove, Martine, 2014. Beja Grammatical Sketch. In Mettouchi, A. and C. Chanard (eds.) *The CorpAfroAs Corpus of Spoken AfroAsiatic Languages*. 68 pages. DOI: <u>http://dx.doi.org/10.1075/scl.68.website</u>. Accessed on dd/mm/yyyy. Pages numbers should be referenced as they appear in this pdf.

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Berber	41	Beja	Beja grammatical sketch	Martine VANHOVE	BEJ_MV_aGRAMMATICALSKETCH.PDF	1.3 Mb		A
✓ Kabyle		Beja	The shelter and the lovers	Martine VANHOVE	BEJ_MV_NARR_01_SHELTER	256 words	00:02:42	0
 Tamasheq 		Beja	The farmer and the djinn	Martine VANHOVE	BEJ_MV_NARR_02_FARMER	544 words	00:05:28	0
		Beja	The camel race	Martine VANHOVE	BEJ_MV_NARR_03_CAMEL	392 words	00:03:49	0
Chadic ✓ Hausa		Beja	The cat-djinn	Martine VANHOVE	BEJ_MV_NARR_04_DJINN	252 words	00:02:04	0
✓ Tausa ✓ Zaar		Beja	Lost in Eritrea	Martine VANHOVE	BEJ_MV_NARR_05_ERITREA	709 words	00:06:47	0
Eddi		Beja	The foreigner, the Beja and the leopard	Martine VANHOVE	BEJ_MV_NARR_06_FOREIGNER	112 words	00:01:10	0
Creole (arabic)		Beja	Cold at the pilgrimage	Martine VANHOVE	BEJ_MV_NARR_07_COLD	136 words	00:01:16	0
🖌 Juba		Beja	The drunkard who became a Muslim and a saint	Martine VANHOVE	BEJ_MV_NARR_08_DRUNKARD	358 words	00:03:25	0
Cushitic		Beja	The jewel and the monster	Martine VANHOVE	BEJ_MV_NARR_09_JEWEL	111 words	00:01:04	
Afar		Beja	The rabbit and the camel	Martine VANHOVE	BEJ_MV_NARR_10_RABBIT	117 words	00:01:05	
✓ Beja		Beja	Muna's coffee	Martine VANHOVE	BEJ_MV_NARR_11_COFFEE	58 words	00:00:33	
Gawwada		Beja	The boy-eater witches	Martine VANHOVE	BEJ_MV_NARR_12_WITCH	289 words	00:02:22	
 Tsamakko 		Beja	The dream by the grave	Martine VANHOVE	BEJ_MV_NARR_13_GRAVE	190 words	00:02:06	
Omotic		Beja	Sijadok the Christian and the Qadi	Martine VANHOVE	BEJ_MV_NARR_14_SIJADOK	552 words	00:05:31	
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Woldytta		Beja	The Prophet, the fox and the crow	Martine VANHOVE	BEJ_MV_NARR_16_PROPHET_FOX	545 words	00:04:51	0
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Tripolinian Arabic		Hausa	Hausa Conversation 1 (Boys)	Bernard CARON	HAU_BC_CONV_01	2410 words		0
		Hausa	Hausa Conversation 2 (Boys)	Bernard CARON	HAU_BC_CONV_02	1638 words		0
		Hausa	Hausa Conversation 3 (Girls)	Bernard CARON	HAU_BC_CONV_03	1326 words		0
		Hausa	Hausa conversation 4 (Men)	Bernard CARON	HAU_BC_CONV_04	4990 words		0
		Hausa	Hausa Narration 1 (Women)	Bernard CARON	HAU_BC_NARR_01	860 words		0
		Hausa	Hausa Narration 2 (Women)	Bernard CARON	HAU_BC_NARR_02	611 words		0
		Hausa	Hausa Narration 3 (Girls)	Bernard CARON	HAU_BC_NARR_03	146 words		0

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 They told their little sister, "now,

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 NEG.EXS { <u>KAB AM NARR 02 556</u> }

• KAB AM NARR 03.EAF :

	ОК	Language	Title	Author	Identifier	Size	Duration	Links
Berber	41	Beja	Beja grammatical sketch	Martine VANHOVE	BEJ_MV_aGRAMMATICALSKETCH.PDF	1.3 Mb		٨
Kabyle		Beja	The shelter and the lovers	Martine VANHOVE	BEJ_MV_NARR_01_SHELTER	256 words	00:02:42	
Tamasheq		Beja	The farmer and the djinn	Martine VANHOVE	BEJ_MV_NARR_02_FARMER	544 words	00:05:28	
		Beja	The camel race	Martine VANHOVE	BEJ_MV_NARR_03_CAMEL	392 words	00:03:49	
Chadic		Beja	The cat-djinn	Martine VANHOVE	BEJ_MV_NARR_04_DJINN	252 words	00:02:04	
Hausa Zaar		Beja	Lost in Eritrea	Martine VANHOVE	BEJ_MV_NARR_05_ERITREA	709 words	00:06:47	
Zadi		Beja	The foreigner, the Beja and the leopard	Martine VANHOVE	BEJ_MV_NARR_06_FOREIGNER	112 words	00:01:10	
Creole (arabic)		Beja	Cold at the pilgrimage	Martine VANHOVE	BEJ_MV_NARR_07_COLD	136 words	00:01:16	
Juba		Beja	The drunkard who became a Muslim and a saint	Martine VANHOVE	BEJ_MV_NARR_08_DRUNKARD	358 words	00:03:25	
Cushitic		Beja	The jewel and the monster	Martine VANHOVE	BEJ_MV_NARR_09_JEWEL	111 words	00:01:04	
Afar		Beja	The rabbit and the camel	Martine VANHOVE	BEJ_MV_NARR_10_RABBIT	117 words	00:01:05	
Beja		Beja	Muna's coffee	Martine VANHOVE	BEJ_MV_NARR_11_COFFEE	58 words	00:00:33	
Gawwada		Beja	The boy-eater witches	Martine VANHOVE	BEJ_MV_NARR_12_WITCH	289 words	00:02:22	
Tsamakko		Beja	The dream by the grave	Martine VANHOVE	BEJ_MV_NARR_13_GRAVE	190 words	00:02:06	
		Beja	Sijadok the Christian and the Qadi	Martine VANHOVE	BEJ_MV_NARR_14_SIJADOK	552 words	00:05:31	
Omotic Wolaytta		Beja	An old man kills a leopard	Martine VANHOVE	BEJ_MV_NARR_15_LEOPARD	197 words	00:01:51	
wolaytta		Beja	The Prophet, the fox and the crow	Martine VANHOVE	BEJ_MV_NARR_16_PROPHET_FOX	545 words	00:04:51	
Semitic		Beja	The shoemaker and the fairies	Martine VANHOVE	BEJ_MV_NARR_17_SHOEMAKER	489 words	00:04:27	
Moroccan Arabic		Beja	Adam and the devil	Martine VANHOVE	BEJ_MV_NARR_18_ADAM_DEVIL	583 words	00:05:26	
Hebrew	63	Hausa	Hausa grammatical sketch	Bernard CARON	HAU_BC_aGRAMMATICALSKETCH.PDF	563 Kb		٨
Tripolinian Arabic		Hausa	Hausa Conversation 1 (Boys)	Bernard CARON	HAU_BC_CONV_01	2410 words		
		Hausa	Hausa Conversation 2 (Boys)	Bernard CARON	HAU_BC_CONV_02	1638 words		
		Hausa	Hausa Conversation 3 (Girls)	Bernard CARON	HAU_BC_CONV_03	1326 words		
		Hausa	Hausa conversation 4 (Men)	Bernard CARON	HAU_BC_CONV_04	4990 words		0
		Hausa	Hausa Narration 1 (Women)	Bernard CARON	HAU_BC_NARR_01	860 words		
		Hausa	Hausa Narration 2 (Women)	Bernard CARON	HAU_BC_NARR_02	611 words		
		Hausa	Hausa Narration 3 (Girls)	Bernard CARON	HAU BC NARR 03	146 words		()

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CORPAFROAS

459 (KAB_AM_NARR_01_0302) 459 NEG_EXS { HEB_IM_NARR_7_SP2_083} ajaran@J // > (KAB_AM_NARR_01_0303) aju ara n= 6č aju ara n= 6č aju ara n= 6č yhat REL.IRR_SBJ.1PLeatMOR // INTERR.PRO_N.INDF_PRO_V13%_Q NEG_EXS { HEB_IM_NARR_7_SP2_325 } vhat are we going to eat ? NEG_EXS { HEB_IM_NARR_01_0304} ulaf // > (KAB_AM_NARR_01_0304) ulaf // > (KAB_AM_NARR_01_0304) ulaf // > (KAB_AM_NARR_01_0304) ulaf // > NEG_EXS { KAB_AM_NARR_01_0304} ulaf // > NEG_EXS { KAB_AM_NARR_01_0574} NEG_EXS { KAB_AM_NARR_01_0779 } NEG_EXS { KAB_AM_NARR_01_0305) BI-338 NEG_EXS { KAB_AM_NARR_01_0305) BI-338		□ Extend Display ►	• HEB_IM_NARR_4.EAF :
Wind // * (xAB_AM_NARR_01_0304) NEG_EXS { HEB_IM_NARR.7_SPL0263 } NEG_EXS // HEB_IM_NARR.7_SPL0263 } NEG_EXS { HEB_IM_NARR.7_SPL0263 } Say/PFVSBJ.3PL/FDAT.3SG so _ now HESIT / NEG_EXS { HEB_IM_NARR.7_SPL0263 } Y13% PRO _ PRO _ CONJ ADV HESIT / NEG_EXS { HEB_IM_NARR.7_SPL0263 } Y13% PRO _ PRO _ CONJ ADV HESIT / NEG_EXS { HEB_IM_NARR.7_SPL0263 } Y13% PRO _ PRO _ CONJ ADV HESIT / NEG_EXS { HEB_IM_NARR.7_SPL0263 } Y13% PRO _ PRO _ CONJ ADV HESIT / NEG_EXS { HEB_IM_NARR.7_SPL0263 } Y13% PRO _ PRO _ CONJ ADV HESIT / NEG_EXS { HEB_IM_NARR.7_SPL0361 } Y13% PRO _ PRO _ CONJ ADV HESIT / NEG_EXS { HEB_IM_NARR.7_SPL0361 } Y13% PRO _ PRO _ CONJ ADV HESIT / NEG_EXS { HEB_IM_NARR.7_SPL0361 } Y13% PRO _ PRO _ V13% Q NEG_EXS { HEB_IM_NARR.7_SPL0361 } Y13% PRO _ PRO _ V13% Q NEG_EXS { HEB_IM_NARR.7_SPL0351 } Y13% PRO _ V103% Q NEG_EXS { HEB_IM_NARR.7_SPL0351 } Y13% PRO _ Y13% Q NEG_EXS { HEB_IM_NARR.7_SPL0351 } Y13% PRO _ V13% Q NEG_EXS { HEB_IM_NARR.7_SPL0351 } Y13% PRO _ V103% Q NEG_EXS { KAB_AM_NARR.01_G304 } Y13% PRO _ Y13% Q NEG_EXS { KAB_AM_NARR.01_G304 } Y13% PRO _ W105 PRO _ V13% Q NEG_EXS { KAB_AM_NARR.01_S22 } Y13% PRO _ Y1			■ NEG.EXS { <u>HEB IM NARR 4 SP1 326</u> }
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V13% PRO CONJ ADV HESIT / They told their little sister, "now, NEG.EXS { HEB. IM. NARR. 7. SPL 0592 } 459 (KAB_AM_NARR_01_0302) 459 (KAB_AM_NARR_01_0302) afarafi@J // * (KAB_AM_NARR_01_0303) NEG.EXS { HEB. IM. NARR. 7. SPL 0592 } ajarafi@J // * (KAB_AM_NARR_01_0303) NEG.EXS { HEB. IM. NARR. 7. SPL 0592 } aju ara nečć aju ara nečć aju ara nečć aju ara nečć what REL.IRR SBJ.1PLeatAOR // what are we going to eat ? NEG.EXS { HEB. IM. NARR. 7. SPL 2032 } what are we going to eat ? NEG.EXS { HEB. IM. NARR. 7. SPL 203 } ulaf // what are we going to eat ? NEG.EXS { KAB. AM. NARR. 01 0304 } ulaf // luaf NEG.EXS { KAB. AM. NARR. 01 0304 } ulaf // luaf NEG.EXS { KAB. AM. NARR. 01 0304 } ulaf // sca.EXS { KAB. AM. NARR. 01 0703 } NEG.EXS { KAB. AM. NARR. 01 0773 } NEG.EXS { KAB. AM. NARR. 01 0703 } NEG.EXS { KAB. AM. NARR. 01 0773 } NEG.EXS { KAB. AM. NARR. 01 0705 } NEG.EXS { KAB. AM. NARR. 01 0705 } NEG.EXS { KAB. AM. NARR. 01 0705) NEG.EXS { KAB. AM. NARR. 01 0705 } <t< td=""><td></td><td>sav/PEV SBJ 3PL EDAT 3SG so now HESIT /</td><td></td></t<>		sav/PEV SBJ 3PL EDAT 3SG so now HESIT /	
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459 ▶ (KAB_AM_NARR_01_0302) 459 ▶ NEG_EXS { HEB_IM_NARR_07_SP2_083} afaran@1 // ▶ (KAB_AM_NARR_01_0303) ▶ NEG_EXS { HEB_IM_NARR_7_SP2_083} afu ara n= 6č what REL.IRR SBJ.1PLeatiAOR // NEG_EXS { HEB_IM_NARR_7_SP2_325 } NEG_EXS { HEB_IM_NARR_01_0304) NEG_EXS { HEB_IM_NARR_01_0304 } ulaf // NEG_EXS { KAB_AM_NARR_01_0304 } ulaf // NEG_EXS { KAB_AM_NARR_01_0304 } ulaf // NEG_EXS { KAB_AM_NARR_01_0304 } ulaf // NEG_EXS { KAB_AM_NARR_01_0774 } NEG_EXS { KAB_AM_NARR_01_0305) NEG_EXS { KAB_AM_NARR_01_0779 } NEG_EXS { KAB_AM_NARR_01_0305) NEG_EXS { KAB_AM_NARR_01_0305) BI-338 ▶ (KAB_AM_NARR_01_0305) BI-338 ▶ NEG_EXS { KAB_AM_NARR_02_EAF :			
ajaran@j // ▶ (KAB_AM_NARR_01_0303) aju ara neóč // what RELIRR SBJ.IPLeatANOR // // NEG.EXS { HEB IM NARR 7. SP2.207 } NEG.EXS { HEB IM NARR 7. SP2.207 } NEG.EXS { HEB IM NARR 7. SP2.207 } NEG.EXS { HEB IM NARR 7. SP2.207 } NEG.EXS { KAB AM.NARR_01_01//>NEG.EXS { HEB IM NARR 7. SP2.315 } NEG.EXS { HEB IM NARR 7. SP2.207 } NEG.EXS { HEB IM NARR 7. SP2.207 } ulaj // what are we going to eat ? NEG.EXS { KAB AM.NARR_01_0304 } NEG.EXS { KAB AM NARR 01_0321 } NEG.EXS // NEG.EXS { KAB AM NARR 01_0305 } NEG.EXS { KAB AM NARR 01_0729 } NEG.EXS { KAB AM NARR 01_0728 } NEG.EXS { KAB AM_NAR		459 KAB_AM_NARR_01_0302)	
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aju ara nečč // what REL.IRR SBJ.1PLeat\AOR // NEG.EXS { HEB IM NARR 7 SP2 325 } NEG.EXS { MAB MNARR 01 0304 } NEG.EXS { KAB AM NARR 01 0304 } ulaj // (KAB_AM_NARR_01_0304) NEG.EXS { KAB AM NARR 01 0321 } NEG.EXS // NEG.EXS { KAB AM NARR 01 0574 } NEG.EXS { KAB AM NARR 01 0574 } NEG.EXS { KAB AM_NARR_01_0305) NEG.EXS { KAB AM_NARR_01_0783 } NEG.EXS { KAB AM_NARR_01_0783 } BI-338 (KAB_AM_NARR_01_0305) NEG.EXS { KAB AM_NARR_02_510 } NEG.EXS { KAB AM_NARR_02_510 } BI-338 (KAB_AM_NARR_01_0305) NEG.EXS { KAB AM_NARR_02_510 } NEG.EXS { KAB AM_NARR_02_510 }			□ NEG.EXS { <u>HEB IM NARR 7 SP2 087</u> }
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■ NEG.EXS { <u>KAB AM NARR 02 556</u> }			
		BI-338	
nnantas anə\`danətJ fat`ima θuħrjt // <pre> (KAB_AM_NARR_01_0306) • KAB_AM_NARR_03.EAF: nnantas ad nə\`di ad nəčč fatima tuħrift // </pre>		nnantas anəʕdanə͡tʃ fatˤima θuħriʃt // 🕨 (KAB_AM_NARR_01_0306)	• KAB AM NARR 03.EAF :

They said "let's eat Clever Fatima !"

Cross-Linguistic Comparison in CorpAfroAs

- Directional extensions (Mettouchi, Savà & Tosco 2015), attach to verbs
 - Hausa, Zaar (Chadic), Kabyle, Tamasheq (Berber), Gawwada, Ts'amakko (Cushitic)
 - Grammatical sketches & Lists of Glosses
 - DIR (directional, precisely 'ventive') in Hausa, CTP (centripetal) in Zaar
 - PROX (proximal) & DIST (distal) in Kabyle & Tamasheq
 - ASS (assertive) & DAT(dative) in Ts'amakko and CTP (centripetal) & CFG(centrifugal) in Gawwada

Examples

/

dà mukà ta:	so: /	► (HAU_	BC_CONV_01	_SP2_30	6)						
dà mukà			ta:so:	1							
dà	mukà		ta:so:	1							
as	1PL.PI	FV.FOC	leave.DIR	R /							
CONJ/hom	PNG.T	АМ	V6	1							
As we had le	eft,										
munà: sa:ra	n itàːʧe	e: munà	: saːran itàːtʃ	e:/ 🕨	(HAU_BC_CONV_01_	SP2_30	7)				
munà:		sa:ran		ità:tʃe:	munà:	sa:ran	1	ità:ʧe:	1		
munà:		sa:ra: -	saː(aː -n		munà:	sa:[a:	-n	ità:tʃe:	1		
1PL.CONT.NFOC f		felling -	POSL	wood	1PL.CONT.NFOC	felling	-POSL	wood	1		
PNG.TAM		N.V1 -	PTCL.SYNT	N	PNG.TAM	N.V1	-PTCL.SYNT	Ν	1		

we were cutting wood,

а	ntr ^s ul	h ar∬ixi	w /	► (KA	B_A	M_NA	RR_()3_0)478)									
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а	ad	=n	t-		ŗuħ	n i	ar		∬ix					-i	w			1
F	рот	DIST	SB	J3SG.F	go\	AOR	to		teac	her	AN	N.S	G.N	ΛP	OS	SS1	SG	1
F	PTCL	PTCL	PR	0	V2	4	PR	ΞP	N.C	ov				Ρ	RC)		1
s	he w	ould go	o to	the tead	che	r,												
a	ısθini	ə::: /	►	(KAB_AN	1_N	ARR_0	3_04	79)										
а	ads			tini				ə::	:	1								
а	ad	=as		t-		ini		ə::	:	1								
F	рот	DAT35	SG	SBJ3S0	G.F	say∖A	OR	HE	ISIT	1								
F	PTCL	PRO		PRO		V13%	6	HE	ESIT	1								
s	he w	ould tel	ll hi	m														



Proportions

- Hausa and Zaar : only one directional extension (Hi tone +-o; -di)
- Kabyle and Tamasheq: two extensions
 - Tamasheq: DIST= 40%, PROX=60%
 - Kabyle: DIST= 0,1%, PROX= 99,9%
 - same diachronic origin =in/=n vs. =du /dd
- Ts'amakko and Gawwada:
 - Ts'amakko: DAT= 3%; ASS= 97%
 - Gawwada: CTP= 21%; CFG= 79%
 - same diachronic origin =nu vs. =na



Main types of verbs

- Hausa and Zaar
 - motion and handling verbs,
- Kabyle
 - verbs of motion, position and handling,
 - verbs of saying
 - all sorts of other verbs except statives
- Tamasheq
 - motion verbs and verbs of saying
- Gawwada and Ts'amakko
 - verbs of motion and handling,
 - verbs of saying
 - other verbs (human activities)

Corpus queries as suggestions, preliminary investigations for more detailed cross-linguistic/ typological research.



- Grammaticalisation path from motion verbs
 - ? diffusion to potentially all types of dynamic verbs (cf. Kabyle) with modal values, via:
 - handling verbs
 - verbs of saying
- Link between deictic motion and speaker-stance?
 - movement towards speaker/addressee in Tamasheq, and Gawwada
 - + viewpoint of the speaker/ addressee in Kabyle
- etc.

Achievements and Limitations

- Achievements
 - 13 hours of prosodically-segmented, and morphosyntactically-annotated spoken data in 13 lesser-described languages
 - common annotation scheme & template
 - 40% dialogal, 60% monologal
- Limitations
 - No clear-cut distinction between languageinternal categories & cross-linguistic ones
 - Necessary mediation through grammatical sketches, grammars...

CorTypo (2013-2017)



HOME

PROJECT LANGUAGES

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RESOURCES CONTACT US



CorTypo: Designing spoken corpora for cross-linguistic research

Financed by the Agence Nationale pour la Recherche (ANR), for 36 months (March 2013-March 2016). Prepared in 2011 and submitted in January 2012.

Principal Investigator: Amina Mettouchi

Directeur d'Etudes at EPHE (Ecole Pratique des Hautes Etudes), member of the CNRS laboratory LLACAN Professional webpage (CV, publications): http://aminamettouchi.linguanet.org

Aim of the project

Innovative nature of the project

The aim of the CorTypo project is the elaboration of an innovative system of linguistic annotation of natural language corpora in lesser-described spoken an annotation of sound-indexed texts that is based on the formal means existing in a given language, including prosodic means, linear orders, and

Latest News

MEMBERS

Our next meeting will take place on March 11, 12 and 13 2015.





Participants

- PI: Amina Mettouchi
- Engineering team: Christian Chanard, Mourad Aouini, Tahar Meddour
- Scientific Managers: Zygmunt Frajzyngier (Functional database), Bernard Comrie (Table of Categories), Martine Vanhove (Corpus)
- Contributors: Evangelia Adamou, Azeb Amha, Isabelle Bril, Bernard Caron, Denis Creissels, Zygmunt Frajzyngier, Katharina Haude, II-II Malibert-Yatsiv, Stefano Manfredi, Amina Mettouchi, Nicolas Quint, Stéphane Robert, Paulette Roulon-Doko, Yvonne Treis, Martine Vanhove.
- Administrative coordinator: Jeanne Zerner
- Invited IT expert: Marc Kemps-Snijders

- <u>http://cortypo.huma-</u> <u>num.fr/</u>
- 14 languages (different phyla)
- A pilot corpus, fully Lannotated
 - same template as CorpAfroAs,

Movima (Amerindian isolate) Ixcatec (Oto-Manguean) Amis (Austronesian) Gbaya (Ubangian) Wolof (Atlantic) Koalib (Heiban) Kabyle (Berber) Wandala (Chadic) Zaar (Chadic) Beja (Cushitic) Beja (Cushitic) Kambaata (Cushitic) Wolaitta (Omotic) Baggara Arabic (Semitic) Hebrew (Semitic)

 with additional functionalities in Elan (allowing retrieval of complex constructions & reference-tracking)





- Deliverables
 - A pilot corpus
 - Interfaced with a comparative database
 - And a table of categories (gloss, abbreviation and full language-internal definitions of categories + cross-linguistic definitions (supervised by B. Comrie))
- The comparative database
 - bottom-up empirically-built functional domains
 - inspired by Frajzyngier's approach
 (Frajzyngier & Mycielski 1998, Frajzyngier & Shay 2003, Frajzyngier 2013, Frajzyngier & Mettouchi 2015, ...))
 - comparison among Functional domains
 - « The functional domain is a set of functions that all share one semantic characteristic, and the forms that realize them are in complementary distribution within a relevant constituent." (Z.F.)



Similarities and differences (F&M 2015)

- Languages are similar/different
 - Different functional domains encoded in the grammar
 - L1 Aspect, L2 Tense, L3 Aspect+Tense...
 - Different structures of a given F.D.
 - L1 Three Aspects, L2 Five Aspects ...
 - Different grammaticalized meanings
 - Perfective in a language with a Negative Perfective (Kabyle) is different from Perfective in a language with no Negative Perfective (Shilha, Siwi...)



	1. 6					
	or Ep	0	Predications	ce	Tense-Aspect- Mood	
			etc.	Kambaata PRED + N	NP Ascriptive Causative	Current query interface The subject is nominative-marked, the property is either expressed by an adjective or a relativised verb to which the equational/ascriptive copula is suffixed. Morphological derivation, suffix -(1)s (the suffix sometimes merges with the stem-final consonant) or -(1)siis; the distribution of -(1)s vs(1)siis is partly grammatically, partly lexically determined and thus not
					Distributive	entirely predictable; the causer/controller is marked by the NOM case, the causee is marked by the ACC or DAT case. Morphological derivation consisting of three morphemes, the middle morpheme, the passive morpheme
					Equational	and the causative morpheme The subject is nominative-marked, the class/group to which the referent belongs is expressed by a noun to
					Existential	which the equational/ascriptive copula (COP2) is suffixed. Existential/copular verb yoo- (COP1) with nominative subject; location expressed in a locative or oblique
					Existential	case adjunct for location, instrumental/comitative adjunct for companions and dative for possessors
ue	Domaine	Predication	Construction		Identification	The subject is nominative-marked, the unique referent with which the subject referent is equated is followed by a non-verbal copula -VV-t (COP3).
le	PRED + NP	Affecting Subject Appreciative	Affecting subject predication has the form prefix s- (ss- before vowel)+ vert Appreciative predication has the form aJk + absolutive clitic or fiwa + absol be_beautiful / great in ge and PRED in rx, at a distance of -1 "ge" cell of AE	utive clitic Look for	Middle	Morphological derivation, two allomorphemes (i) a glottal suffix realised as a glottal stop if the stem-final single consonant is a sonorant, realised as glottalisation if the stem-final single consonant is an obstruent, (ii) a suffix -aqq found after stem-final geminate consonants/clusters
			Ascriptive predication has the forms: a) predicative copula d + adjective or noun		Passive	Morphological derivation, suffix: -am
			 b) predicative copula d + adjective iri 'bad' or lSali 'good' + absolutive cliti adjective iri 'bad' or lSali 'good' +NP 	c OR predicative copula d +	Reciprocal	Morphological derivation consisting of two morphemes, the middle morpheme -? / -aqq plus the passive
		Ascriptive				morpheme
			 a) COP in ge and PRED in rx, at a distance of -1 "ge" cell of ADJ in rx. b) COP in ge and PRED in rx, at a distance of -1 "ge" cell of good (or bad) i 	n ge, itself at a distance of -1		Affected subject predication is an outcome of the combination of the verbs of class 3 with the exponent of
			"ge" cell of ABSV in ge and PRO in rx	-	Affected-subject	the function suffix à. Affected subject predication is always intransitive.
		Dynamic	Dynamic predication has the form : labile verb+obligatory subject affix, plu pronoun, or a noun in the absolute state.	s enner an absolutive clific	Affirmative existential	áŋkwà NP
		Externally-affected	Externally-affected subject has the form ttw-prefix + verb root + subject affi	x	Equational	NP NP(predicate) Two constructions code the predication. When class 1 verbs (inherently goal oriented verbs) the
		subject Internally affected subject				predication is marked by the vowel deletion on the verb preceding the noun phrase. The noun phrase that
		Negative Ascriptive	Negative ascriptive predication has the form $matftfi + COP + adjective or n$	oun	Goal	follows the verb represents the direct object. Third person singular object pronoun cannot occur on the verb. With class 2 verbs (non-affected subjects, non-affected objects) and class 3 (affected subject) verbs,
		Negative existential	Negative Existential has the form ula∫, preceded or followed by an NP in the form ula∫ is the negative existential predicate.	e absolute state, where the		the predication is marked by the suffix a (note the high tone) added to the verb.
		Negative locative	Notify that the negative existential products: Negative locative predication has the form ulaf+absolutive clitic, where the existential predicate. The referent of the absolutive clitic can be expressed e state following the predicate+clitic, or by an NP in the absolute state preced absolutive monoun	ither by an NP in the annexed	Indirect object	Verb + (object pronouns) + 3p. sing. object pronoun n. With verbs other than inherently indirect object, the third person singular indirect object is marked by the sequence $n + n$. For inherently indirect object verbs, the third person singular is marked only by the pronoun n. The marking on the verb is required regardless of whether there is or not a nominal indirect object.
					Indirect object role of the noun phrase	In the indirect object predication, marked by the third person object suffix n, a noun phrase is marked fro the indirect object through the preposition g 'to'.
						If the predicate is inherently locative, the locative predication is coded by juxtanosition of the predicate

Locative

Negative existential

Object role of the noun phrase

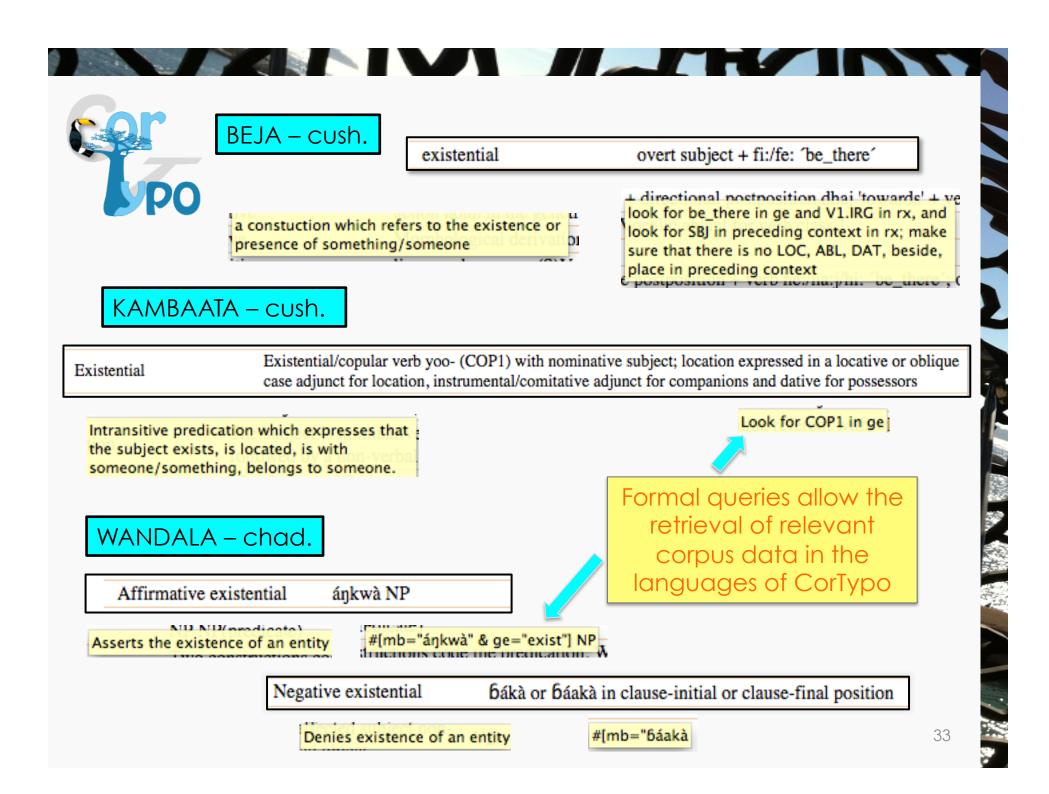
Non-affected subject nonaffected object V2 +à NP

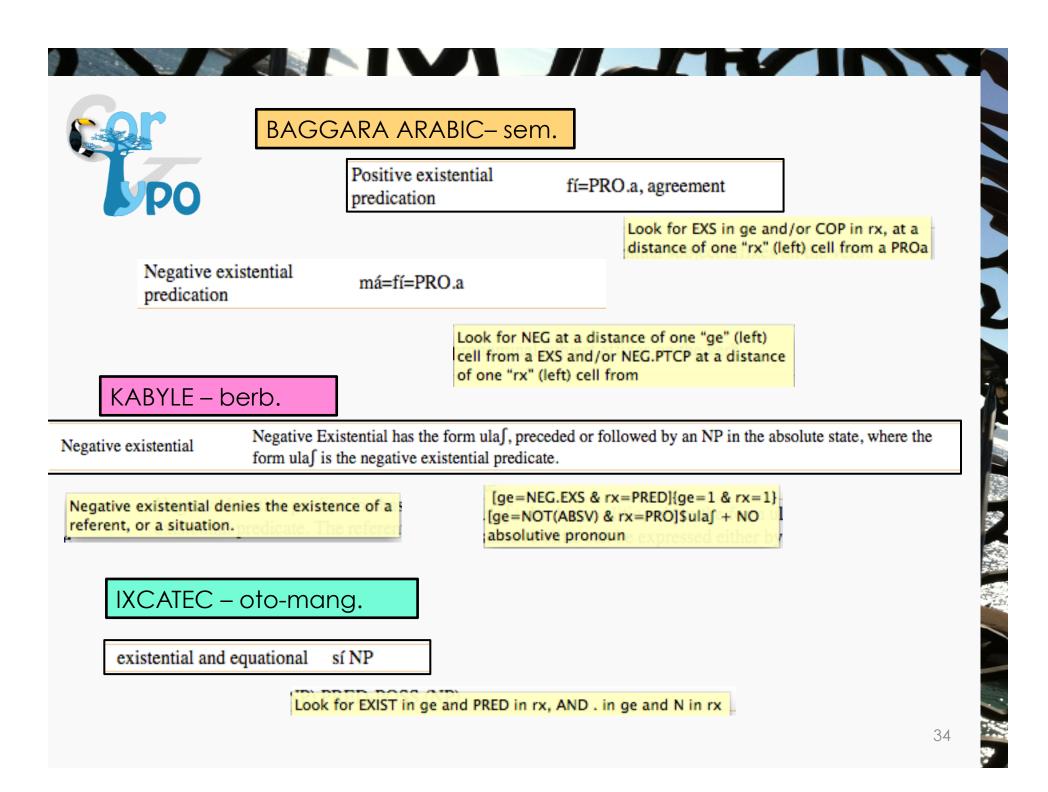
of prepositions.

 δ ákà or δ áakà in clause-initial or clause-final position

If the predicate is inherently locative, the locative predication is coded by juxtaposition of the predicate and the locative complement. If the predicate is not inherently locative, the locative predication is marked by the predicator a followed by the NP. The noun phrase is marked for the locative function by a variety

When separated from the verb by other constituents, vowel deletion on the constituent preceding the NP indicates that the NP is the direct object. When following the verb of class 1, vowel reduction on the verb indicates that the noun phrase is the direct object.







Comparing Languages

- In CorpAfroAs
 - homogeneised labels (PFV for perfective, completed, 'accompli'...)
 - L-defined in the grammatical sketches
 - comparison within a phylum/families
 - open comparison
 - which categories are « comparable » is to be decided by the end-user depending on their theoretical position
 - Formal categories (Newmeyer 2007)
 - 'Comparative concepts' (Haspelmath 2007)
 - etc...



Comparing Languages

- In CorTypo
 - Labels fully language-internal
 - defined for each language in the Table of Categories
 - categories' definitions can be compared
 - New functionalities in Elan-CorpA (constructions)
 - Separation between L-internal (corpus) and cross-linguistic (database) levels
 - Database providing domains, functions and forms + queries for retrieval of corpus data
 - Comparison guided through the database
 - which categories are comparable is prepared by the project members (through functional domains)
 - But other databases could be interfaced with the corpus (project open to further developments)



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Thank you



0253

Don't sit and wait. Get out there, feel life. Touch the sun, and immerse in the sea. Jalāl ad-Dīn Rūmī (1207-1273)