Cognitive Neuroscience of Language: 16: Language exotica

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Goals



Look at the envelope of possibilities within which human language may exist; look at exotic language phenomena from around the world

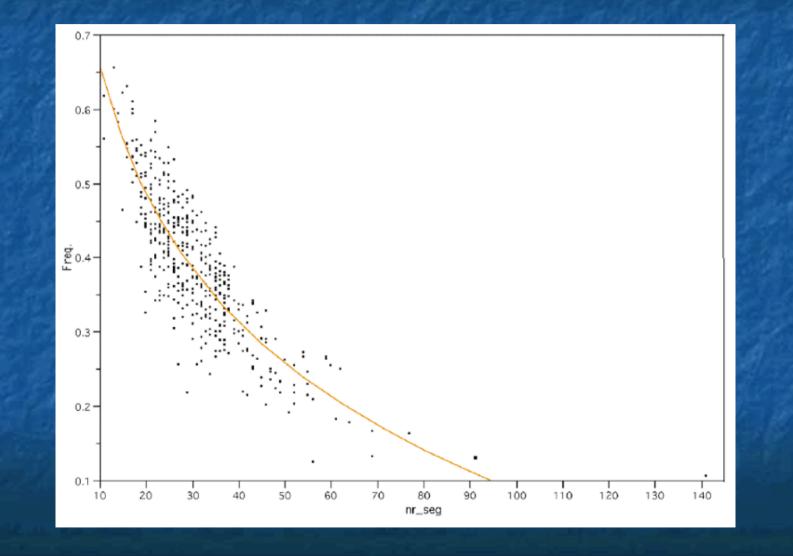
Today's reading

Rodriguez-Fornells, A., Rotte, M., Heinze, H-J., Nösselt, T. & Münte, T.F. (2002). Brain potential and functional MRI evidence for how to handle two languages with one brain. *Nature 415*, 1026–1029.

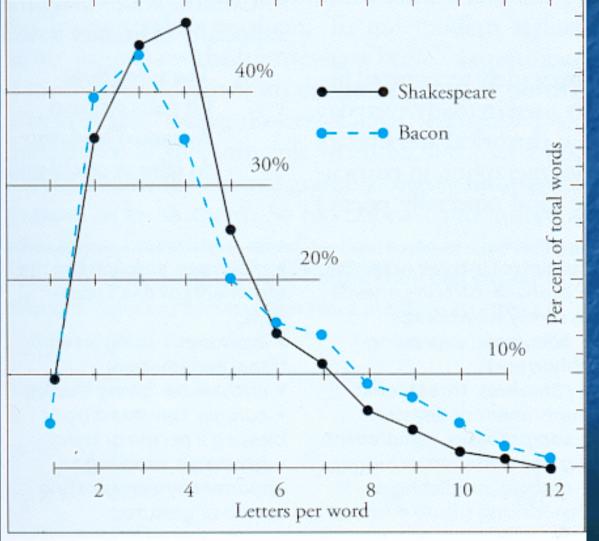
Gilbert, A.L., Regier, T., Kay, P. & Ivry, R.B. (2006). Whorf hypothesis is supported in the right visual field but not the left. *Proceedings of the National Academy of Sciences*, 103, 489–494.

Numbers of segments UCLA Phonological Segment Inventory Database						
II segments	Rotokas (Indo-Pacific), Mura (Chibchan) and Piraha					
141 segments	!Xu (Khoisan)					
consonants vowels	6–95 (mean of 22.8) 3–46 (mean of 8.7)					
Piraha	7 (+ /s/ 3) consonants, 3 vowels					
Pawaian	10 consonants, 12 vowels 5					

Numbers of segments UCLA Phonological Segment Inventory Database



Forensic linguistics and individual differences



Williams (1970), after Mendenhall

Agglutinating languages

angyaghllangyyugtuq "he wants to acquire a big boat" in Eskimo angya-ghlla-ng-yug-tuq

Every category used to study language breaks down at its edges – even "word"

Word order

SVO the boy saw the man OVS Jones I invited – not Smith VSO govern now my song OSV strange fits of passion have I known SOV pensive poets painful vigils keep

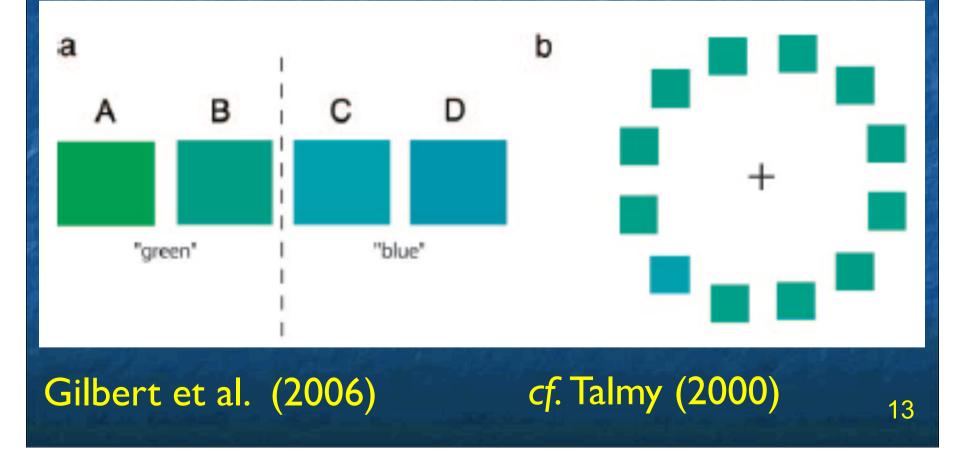
Word	Ruł	Ruhlen		Mallinson and Blake		Hawkins		Tomlin	
Order	No.	%	No.	%	No.	%	No.	%	
SOV	222	51	41	41	174	52	180	44.78	
SVO	155	35	35	35	109	32	168	41.79	
VSO	47	11	9	9	45	13	37	9.20	
VOS	8	2	2	2	8	2	12	2.99	
OVS	2	0.5	1	1			5	1.24	
OSV	1	0.25	1	1	—			—	

Peeters (1991)

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The Whorfian Hypothesis

yarla, pirti, pirnki, kartalpa, yulpilpa, mutara, nyarrkalpa, pulpa, makarnpa, katarta ... words for "hole" in Pintupi



Dialect continua



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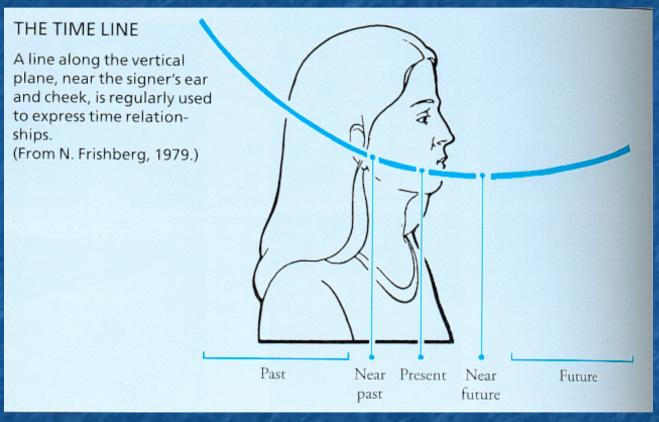
Male and female speech in Koasati Haas (1944)

FemaleMaleiskóiskóhe drankmolhîlmolhiswe are peeling it

Channels and structure in Pirahã **Everett (2005)** Hum, Yell, Musical and Whistle speech in Pirahã No number, quantifiers, colour terms, recursion Wray and Grace (2005): esoteric vs. exoteric communication



The time line in the signing space Frishberg (1979)



Sign-language and "iconicity" (Levy)

Conclusions

Languages vary along numerous dimensions and are intimately tied to the real lives of the speakers and listeners