

Follow

Is communication governed by the same goals & inferences across

We (w/ Miguel Salinas, @spiantado, @LanguageMIT) aim to shed light on this w/ referential comm. & eye-tracking data from the Tsimane', a nonindustrialized Amazonian group: bit.ly/41F6yl1

10:50 PM · Apr 28, 2023 · 10.7K Views

	•				
Q 1		↑ 17	© 60	□ 14	1
	Speakers had expression there, the b	to refer to som ig cup, etc). F	ions to choose from		
	Q 1	tℷ	♥ 4	ılı 449	土



Rachel Ryskin @raryskin · Apr 28

Pple tend to avoid using adjectives unless their utterance would be ambiguous without one (e.g., "Hand me the big cup" when there is a big cup and a small cup). Though this depends on adjective type (color more likely to be used redundantly than size; e.g., Degen et al. 2020).

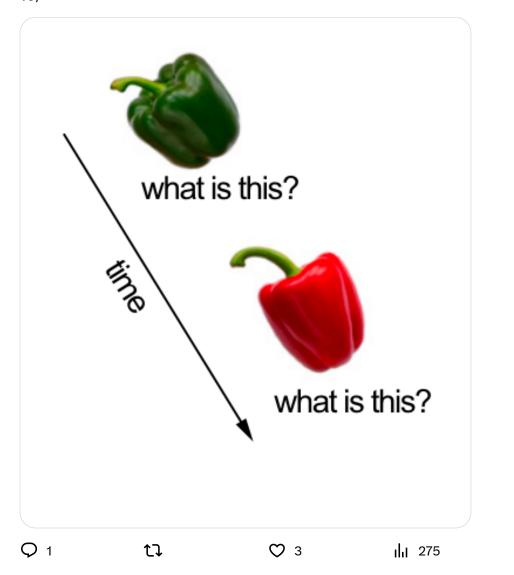
3/ Q_1 **t**l **O** 3 土 1 299

Rachel Ryskin @raryskin · Apr 28 ··· Sedivy et al. (1999) showed listeners are aware of speakers' goals and make rational, incremental inferences. E.g., when they hear "the big" they look more at a big cup in a contrast than one by itself, presumably inferring they wouldn't have said "big" if it wasn't needed. 4/						
Q 1	t l 1	♡ 3	ıl _{ıl} 289	₾		
Rachel Ryskin @raryskin · Apr 28 ··· There is one major caveat to all this: the assumptions about speakers' communicative intentions and listeners' corresponding inferences have primarily been tested in so-called WEIRD (western, educated, industrialized, rich, and democratic) populations (Henrich et al., 2010). 5/						
Q 1	tī.	♡ 5	ılıı 259	₾		
Rachel Ryskin @raryskin · Apr 28 ··· Many aspects of language are profoundly shaped by culture (and possibly vice versa). Industrialization in particular impacts how humans carve up the world into categories and what they see as dimensions of similarity/contrast (Luria, 1975; Atran & Medin, 2008). 6/						
Q 1	tı	♡ 4	ıl _{ıl} 246	₾		
Rachel Ryskin @raryskin · Apr 28 Similarly, Givón & Young (2002) proposed that in "societies of intimates" (e.g., small, kin-based grouping, foraging-based economies, restricted territory) the goals of speech acts differ from the Gricean norms of "societies of strangers." 7/						
Q 1	បា	♥ 4	ılıl 237	₾		

Rachel Ryskin @raryskin · Apr 28 Individuals in a "society of intimates" interact primarily with a small number of other people and share much prior knowledge with each conversation partner, with whom their lives are often deeply intertwined (e.g., via kinship). 8/						
Q 1	t₁	♡ 3	ılıı 228	土		
Rachel Ryskin @raryskin · Apr 28 ··· They may often wish to exchange information while maintaining some ambiguity: the potential cost of being redundant or uninformative is less than the potential cost of alienating any of the other intimates (e.g., by being identified as the source of negative information) 9/						
Q 1	tì	♡ 2	ılı1 264	҈		



The Tsimane' live in a "society of intimates" and their productions may not conform to Gricean norms: they omit the color adjective both when labeling e.g., the green bell pepper and when they see the red bell pepper immediately after (Gibson et al., 2017) 10/







We set out to probe the communicative goals and inferences of Tsimane' speakers and listeners in the setting of simple referring expressions using 1) a referential communication task, and 2) visual world paradigm eyetracking.

11/

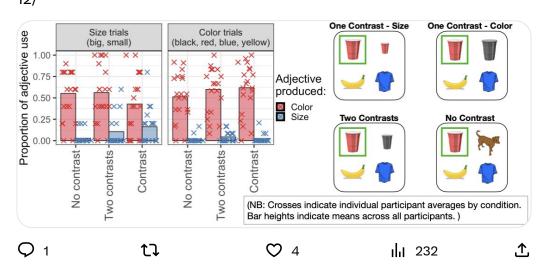




Rachel Ryskin @raryskin · Apr 28

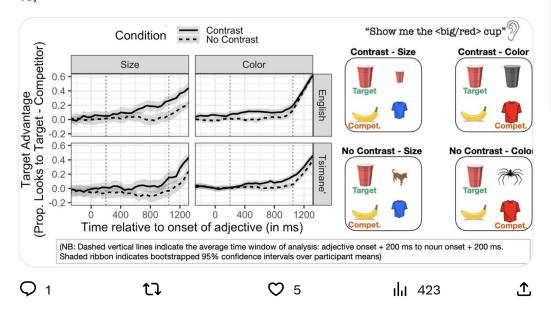
In the referential communication task, Tsimane' speakers were more likely to produce both size and color adjectives when the target (in green square) was in a contrast set, similar to previous findings in English. (But English speakers produce more adj of both types overall.)

12/





In the eye-tracking task, English and Tsimane' listeners made more anticipatory looks to the target (and fewer to the competitor) in a contrast, replicating prior findings w/ multiple languages (Sedivy et al., 1999; Ryskin et al., 2019; Rubio-Fernandez & Jara-Ettinger, 2020) 13/





Rachel Ryskin @raryskin · Apr 28

In sum, simplified communication tasks reveal similar patterns between Tsimane' and English speakers, suggesting that, for simple referring expressions, communicative goals and inferences may be shared across cultures. (More deets, including breakdown by adj type, in paper!) 14/



Rachel Ryskin @raryskin · Apr 28

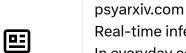
Are these tasks too simple to capture cultural differences? Our goal was to start with the simplest building blocks of communication—how we produce and understand references to what we see around us—but we hope future work will involve more complex conversational exchanges!

15/



p.s. Preprint is available here: psyarxiv.com/ga83j

end/



Real-time inference in communication across cult... In everyday communication, speakers and listeners make sophisticated inferences about their ...

Q 1 1 0 9 III 443

• •

土