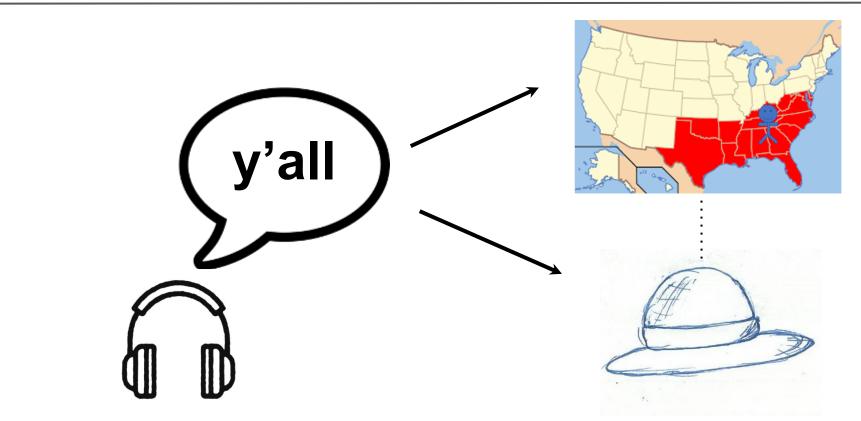
The Role of Social Meaning in the Emergence of Indexicality

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Speakers link linguistic features with social information



- Previous theoretical work on naturalistic data (e.g., Agha, 2007; Jaffe, 2009; Meyerhoff & Schleef, 2012; Pharao, Maegaard, Møller, & Kristiansen, 2014; Johnstone, 2016)
- How does indexicality emerge?
- Agha (2007): indexicality requires "functional **reanalysis** of 'diverse behavioural signs'"
- Johnstone (2016): a sign possesses indexicality "by virtue of cooccurring with what it is taken to mean"

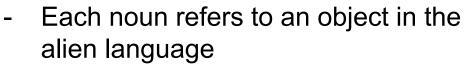
To extend further:

- Is mere co-occurrence of speakers, traits and linguistic variants sufficient? Experiment 1
- If co-occurrence is not enough, what else is needed?
 Extension to new users? Experiment 2
- Is all co-occurrence equal? Probably not. Indexicality also requires social meaning to be attached.
 Experiment 3

- To test these claims, we need an experimental paradigm where we can manipulate:
- what co-occurs with what without worrying about the associations people already have with different linguistic features
- How should we do this?
- Artificial language learning experiments!

- We created a miniature artificial alien language
- Nouns:

kabuq, bupod, hasot, wejun, kenig, tulimur, petilet, ropuko, luragur, gunawul

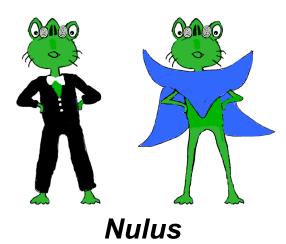


- Two plural suffixes: *-gok* and *-dem*



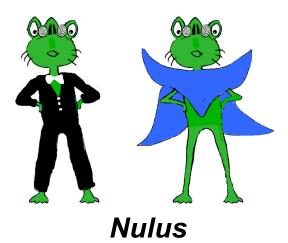
kabuqdem/kabuqgok

• This language is used by two different alien species

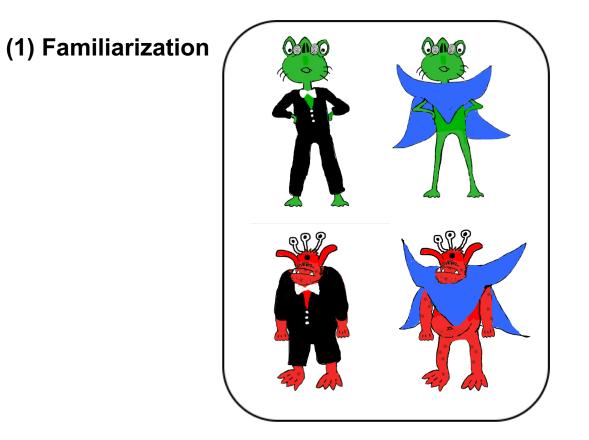


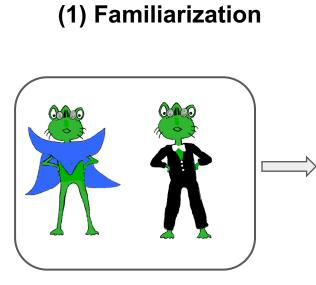


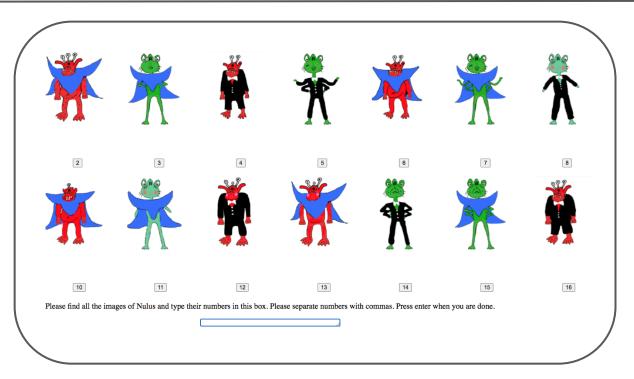
• The two different alien species are in **two different** ceremonial outfits



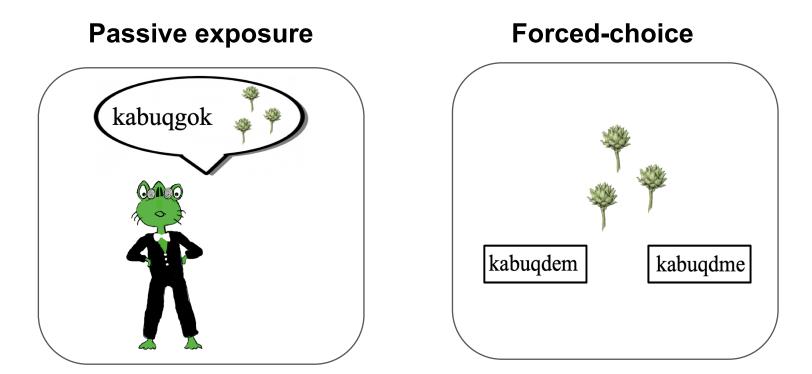






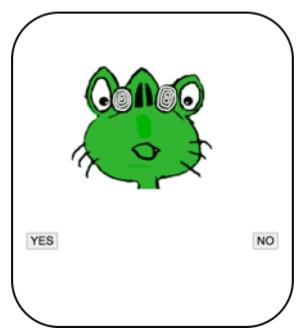


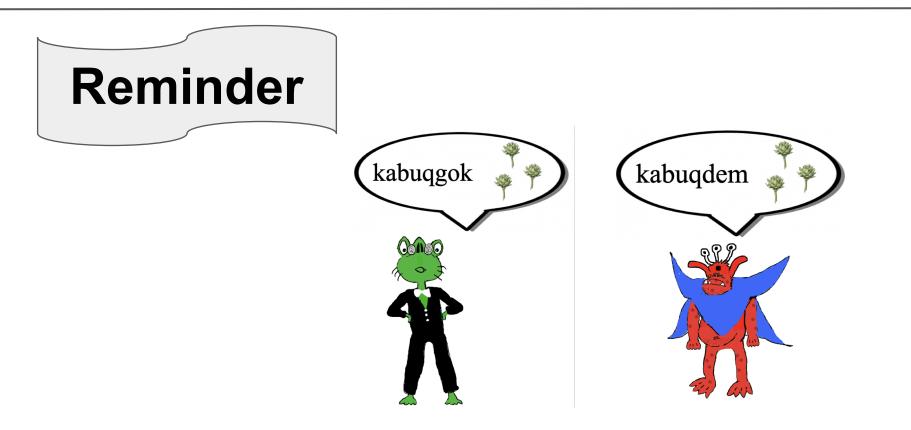
(2) Language training



(3) Memory test

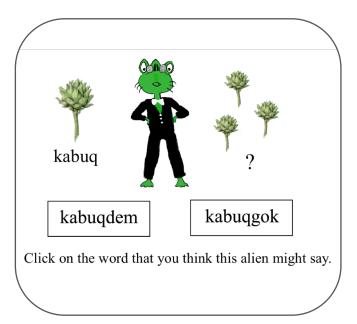
Have you seen this alien before?





(4) Association test

Suffix selection



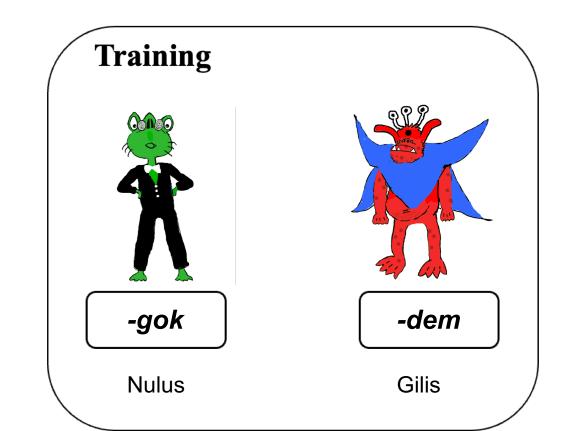
Alien selection kabuqgok Click on the alien that might have said the word

Quick recap of the experimental set-up

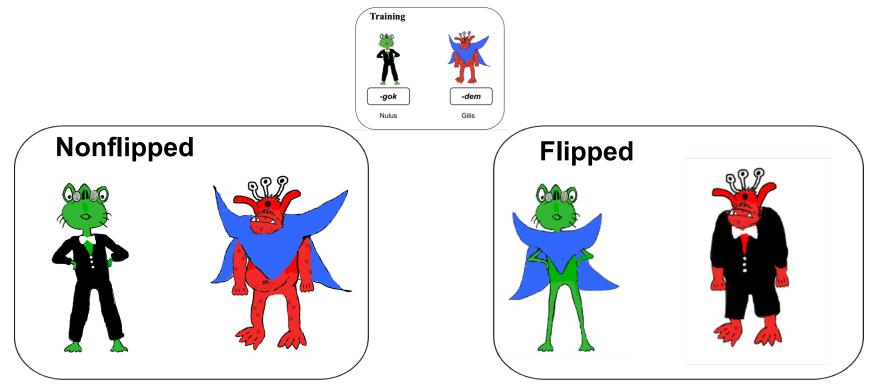


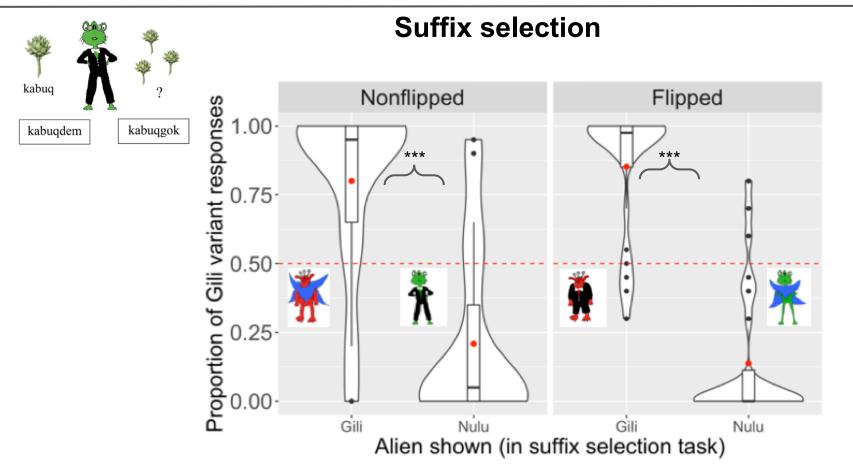
Back to the question of emergence of indexicality...

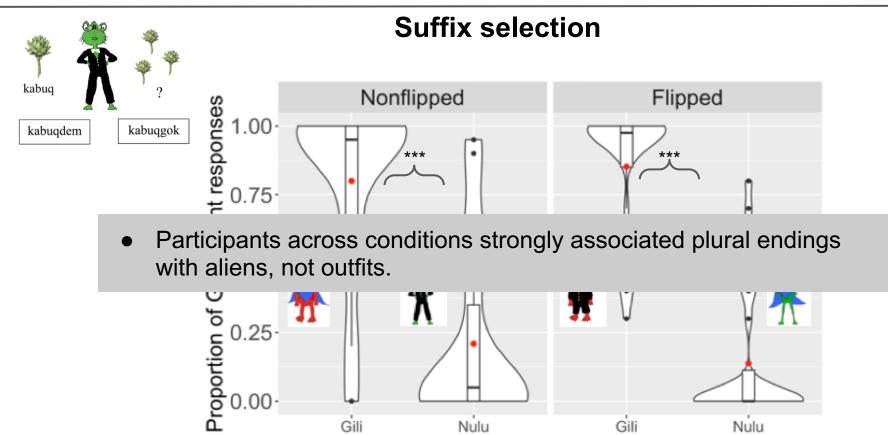
• Conditions



• Conditions: Association test







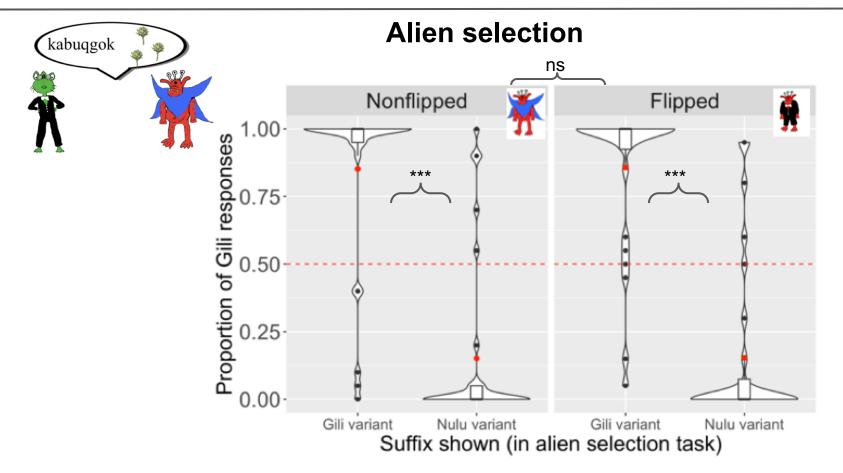
Nulu

Alien shown (in suffix selection task)

Ġili

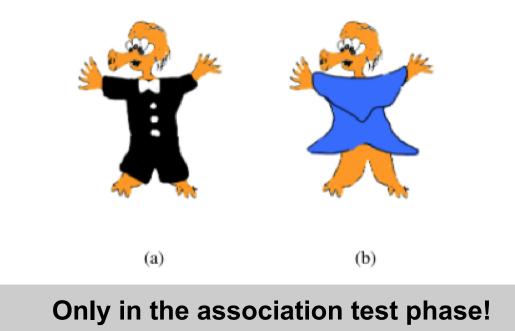
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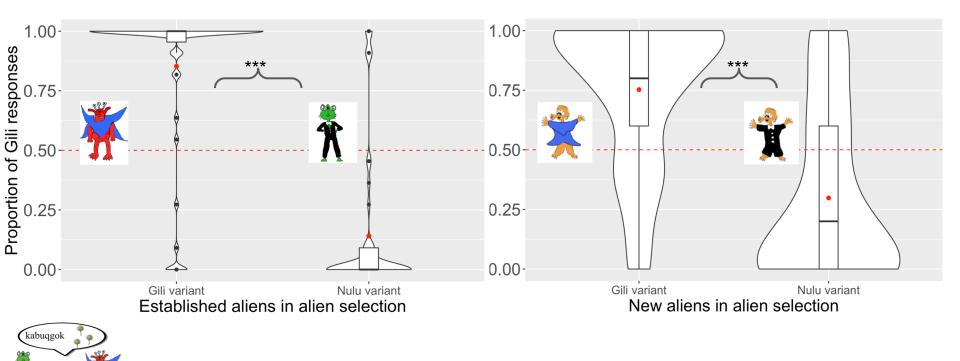


 According to Experiment 1, participants primarily associate plural endings with aliens. But perhaps they have made secondary associations with outfits that did not show up in our task.

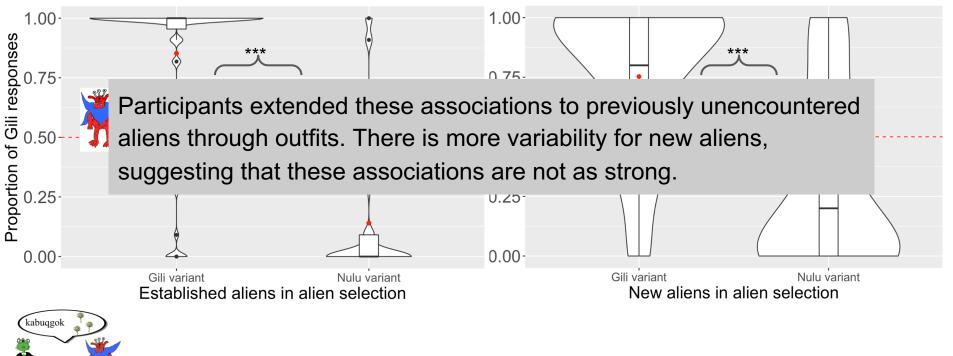
 If so, one reasonable possibility is that these associations may show up with new language users.



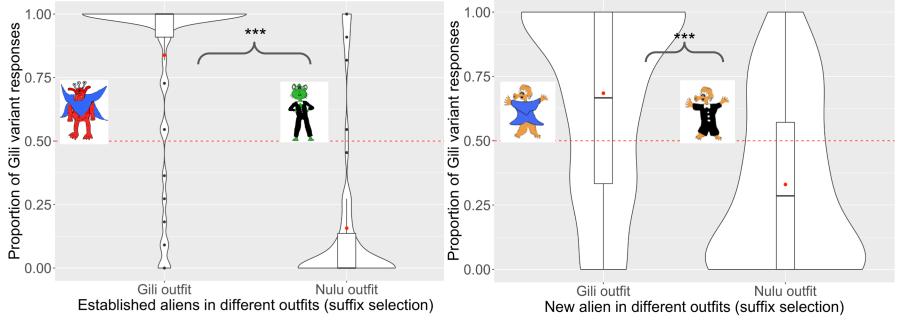
Alien selection



Alien selection



Suffix selection



 While participants acquired strong first-order associations between suffixes and alien species, they extended these associations via clothing to previously unencountered aliens.

 Participants must have established some latent secondary association with clothing. Now, would this association become strengthened if it were given more social importance?

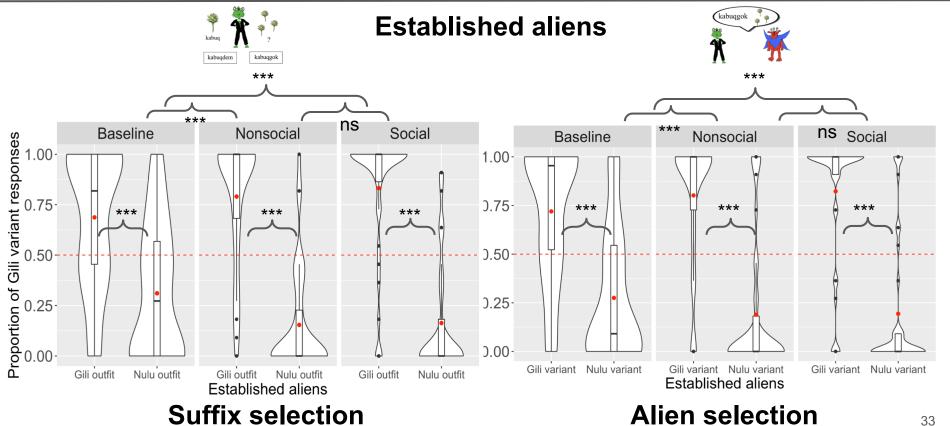
• Introducing a new familiarization task

Diplomatic gathering

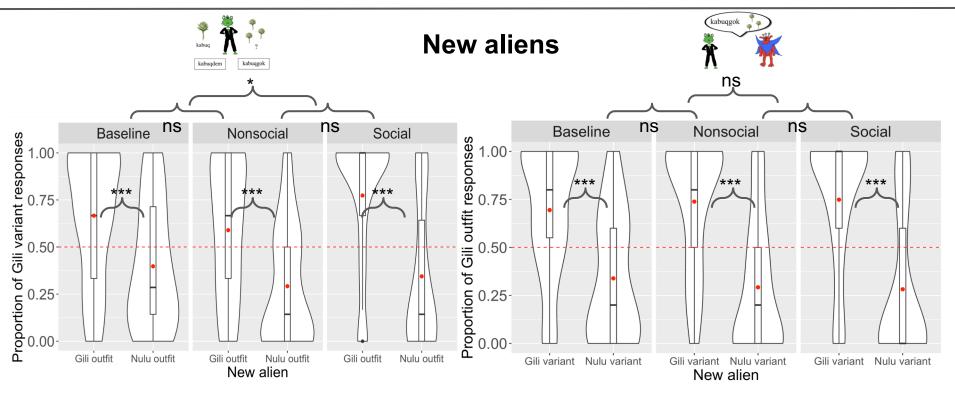


Conditions

Social condition: clothing is socially important and aliens will be offended if you do not have an equal number of each color outfit. Nonsocial condition: clothing is aesthetically important and the party will not succeed if you do not have an equal number of each color outfit. Baseline condition Same grouping activity as Experiment 1 and 2



Alien selection



Suffix selection

Alien selection

Conclusion

We found that indexicality seems to arise partly through:

- Exposure to **co-occurring** socially salient and contrastive **variation**.
- Extension to **new contexts** in which the indexed trait is dissociated from the originally observed bearers.
- Modulated by the perceived **practical importance** of the trait in question.

Thank you!

Acknowledgements:

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Contact us for further questions:

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