

Introduction

• Bantu languages are famous their complex noun class systems

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- Q: How do speakers learn noun class membership?
- Q: How do speakers choose among noun class prefix allomorphs?

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Noun classes in Xhosa

Singular	Plural	Class	Gloss	
um-nt'u	<mark>aɓa</mark> -nt'u	1/2	person	
u-mama	oo-mama	1a/2a	mama	
um-lambo	imi-lambo	3/4	river	
i-gama	ama-gama	5/6	name	
isi-ca	izi-ca	7/8	dish	
i-ŋk'omo	ii-ŋk'omo	9/10	cow	
ulu-su		11	stomach	



Disambiguating classes 5 and 9Short (1 syllable) nouns:

ili-fu	ama-fu	5/6	'cloud'	
ili-ce	ama-ce	5/6	'stone'	
i-nd3a	izi-nd3a	9/10	'dog'	
i-nt'o	izi-nt'o	9/10	'thing'	
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 Homophonous prefixes With long (2+ syllable) nouns, classes 5 and 9 can both be [i-]: 						
i-k	^h aya	ama-k ^h aya	5/6	'home'		
i-g	yama	ama-gama	5/6	'name'		
i-n	noto	ii-moto	9/10	'car'		
i-ŋ)k'omo	ii-ŋk'omo	9/10	'cow'		
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The history of classes 5 and 9 Class 5: *li > i(li) Class 9: *ni > i(n) (Doke 1954) Class 9 nouns often retain the nasal: i-ndʒa 'dog', i-ŋk'omo 'cow', etc But not all words have the nasal in the prefix: i-moto 'car' i-cuwa 'salt' i-lʰilika 'traditional honey beer'

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- Class 9 nouns historically lost initial aspirated and non-hardened Cs
- Class 5 nouns didn't go through this process and so may surface with aspirated and non-hardened Cs

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- If C1 is a post-nasal change *undergoer* (fricative, aspirate, implosive, /l/), speakers should the word as class 5/6 and give plural forms with ama-
- If C1 is the *result* of a post-nasal change (voiced, unaspirated, nasal), speakers should treat the word as class 9 and give plural forms with ii(N)- or izi(N)-

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- Stimuli presented on a laptop in random order
- Participants saw 3 real-noun sg/pl examples in the instructions, then did 14 practice items

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 Undergoers are likely to be class 5/6, while results are likely to be class 9/10

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Discussion

- Synchronic phonotactics can come from historical patterns
- Speakers make use of phonotactic clues in determining noun class
- Noun classes aren't simply semantic or arbitrary—phonology plays a role

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Background

- Xhosa noun class prefixes alternate based on the length of the following root
- Are these alternations synchronically productive, or just the vestiges of historical change?
- We argue that these alternations are part of speakers' synchronic grammars

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Block 2 (class 6/pl. → 5/sg.): Stimuli Plural class 6 → singular class 5 10 monosyllabic roots 10 disyllabic roots distinct from block 1 20 filler/distractor items (part of a separate experiment) 10 monosyllabic, 10 disyllabic distinct from block 1

Block 2: Task

• Block 2 (6/pl. → 5/sg.)

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- On each trial, speakers see a plural nonce noun with the class 6 prefix ama-
- Speakers produce the singular of that nonce noun, with one of the two class 5 allomorphs, ili- or i-





<section-header><list-item> Data capture Stimuli presented on a laptop in random order Participants saw 3 real-noun sg/pl examples in the instructions, then did 14 practice items Audio recorded, responses coded for class prefix added







Results: Block 2 (6/pl. \rightarrow 5/sg.) • Speakers were more likely to use ili- with short roots and i- with long roots $80\%^{-}$

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long

short











