

Overview

- Certain noun class prefixes in Xhosa (Bantu, Nguni, South Africa) alternate based on the length of the following root
- The Question: are these alternations synchronically productive, or just the remnant of historical change?
- We argue that these alternations are part of speakers' synchronic grammars

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Length-based allomorphy in class 10

• Class 10:

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- izi(N)- before 1-syllable roots
- ii(N)- elsewhere

| Singular (9) | | Plural (10) | Gloss |
|------------------|------------|-------------------|------------|
| in- <u>to</u> | [int'o] | izin- <u>to</u> | 'thing(s)' |
| in- <u>dlu</u> | [indŀzu] | izin- <u>dlu</u> | 'house(s)' |
| in- <u>dlela</u> | [indkela] | iin- <u>dlela</u> | 'road(s)' |
| in- <u>tombi</u> | [int'ombi] | iin- <u>tombi</u> | ʻgirl(s)' |
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Length-based allomorphy in class 5

• Class 5:

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- ili- before 1-syllable roots
- i- elsewhere

| Singular (5) | | Plural (6) | Gloss |
|-------------------------------|----------|-----------------|------------|
| ili- <u>fu</u> | [ilifu] | ama- <u>fu</u> | 'cloud(s)' |
| <mark>ili</mark> - <u>tye</u> | [ilice] | ama- <u>tye</u> | 'stone(s)' |
| i- <u>cephe</u> | [i epʰe] | ama-cephe | 'spoon(s)' |
| i- <u>dada</u> | [idada] | ama-dada | 'duck(s)' |
| | | | |

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Block 1 (class 9/sg. \rightarrow 10/pl.): Stimuli

- Singular class $9 \rightarrow$ plural class 10
 - 10 monosyllabic roots
 - 10 disyllabic roots

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20 filler/distractor items (part of a separate experiment)

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• 10 monosyllabic, 10 disyllabic

Block 1: Task

• Block 1 (9/sg. → 10/pl.)

- On each trial, speakers see a singular nonce noun with the class 9 prefix i(N)-
- Speakers produce the plural of that nonce noun, with one of the two class 10 allomorphs, izi(N)- or ii(N)-

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Block 2 (class 6/pl. \rightarrow 5/sg.): Stimuli

- Plural class $6 \rightarrow singular class 5$
 - 10 monosyllabic roots
 - 10 disyllabic roots

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- distinct from block 1
- 20 filler/distractor items (part of a separate experiment)

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- 10 monosyllabic, 10 disyllabic
- distinct from block 1

Block 1 (9/sg. \rightarrow 10/pl.): Examples

• into \rightarrow <u>izinto or iinto</u> • indlu \rightarrow <u>izindlu or iindlu</u> • indlela \rightarrow <u>izindlela or iindlela</u> • intombi \rightarrow <u>izintombi or iintombi</u>

Block 2: Task

• Block 2 (6/pl. \rightarrow 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-

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Block 2 (6/pl. \rightarrow 5/sg.): Examples



Results: Block 1 (9/sg. \rightarrow 10/pl.)





The "other" category

- Real class prefixes, but not izi(n)- or ii(n)-
- Most common: ama- (class 6 pl.)

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- Two likely reasons for ama- responses
 - i-CVCV forms may be ambiguous between class 5 i(li)- and class 9 i(n)-
 - Some frequent nouns in class 9 have class 6 plurals (a 9/sg.~6/pl. paradigm exists) ex: in-doda → ama-doda 'man' / 'men'

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Conclusion

- The length-based alternations are not just a historical vestige
 - Speakers have some linguistic awareness of length as the basis for the allomorphy
 - They can extend that knowledge to the treatment of novel words; it's not lexicalized

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Conclusion Length-based allomorphy can be synchronically active even when its motivation is historical, rather than phonologically/phonetically motivated Bisyllabic minimality as driving factor? *iin-* ~ *izin-*: no difference in mora count Prefix usually doesn't count for minimality of stem, but seems to do so here.

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