



TYPES OF REDUPLICATION

CANONICAL REDUPLICATION

- Form: full, partial, or CV-
- Application: nominals (including adjectives) and verb ster
- Semantics: diminutive, augmentative, plural, adverbial, et



ADVRED-A√tomo-n ADV-wait-NPL

ADVRED-_R√nəmae

ADV-turn.NPL



tomo-n~tomo-n (1) 'while waiting' pəmae~pəmae (2) 'while turning'

INFINITIVAL REDUPLICATION

- Form: full, partial, or CV-
- Application: monosyllabic verb roots in non-inflected forn
- (e.g., infinitive, present tense, dependent clauses, etc.)
- Semantics: subject/patient number PL (Class A), NON-PL (Cl
- Distribution: complementary with absolutive number suff

VERB CLASS	NONPLURAL	PLURAL
Α	-ɲ, -n, -əŋən, -l, -r	RED-/-nen
В	RED-	-nen
С	-eb/-em	-ejb/-ejm
D	-ŋg	-meɲ



Ug~**Ug** (3) 'to make one or two ovens' ug-nen (4) 'to make three or more ovens' **ga-n** (5)

'to plant one or two' ga~ge (6)

'to plant three or more'

qa~nen (7)

'to plant three or more'

MULTISYLLABIC VERB ROOTS DON'T REDUPLICATE

- Nonplural B roots are only realized non-reduplicated (8).
- > Plural class A roots are only realized with suffix *–nen* (10).

a INFRED-B√imonz **NPL-touch** √imonz-nen touch-PL NFRED-_A√tomo

PL-wait √tomo-nen ≤ wait-PL



*imonz~imonz 🖙 imonz 'to touch one or two' Imonz-nen (9) 'to touch three or more'

tomo~tomo 'to wait for three or more' tomo~nen (10) 'to wait for three or more'

PHONOTACTICS OF INFINITIVAL VERB ROOTS

- > 98.6% are multisyllabic or multimorphemic.
- ➢ 25% are reduplicated.
- > 97.9% of reduplicated forms have monosyllabic roots.

Phonotactic Reduplication in Ende

Kate Lynn Lindsey • klindsey@stanford.edu Annual Meeting on Phonology 2018

		ANA	YSIS			
<u>ms</u> tc.	 TRADITIONAL ANALYSIS IN OT RESULTS IN PARADOX ➤ Traditionally, identical input would be assumed for both reduplica > infintival reduplication of multisyllabic roots is marked > while adverbial reduplication of multisyllabic roots is not. 					
	INFRED- _B √ŋəmae PL-turn ADVRED- _B √ŋəmae ADV-turn.NPL	*nəm 'to turn ()))))))))))))	ae~nəmae ^{3+ subjects)'} nae~nəmae rning'	2 (2)		
ns lass B) fixes	 SOLUTION A: DIFFERENT GRAMMARS FOR SAME INPUT Frameworks: lexical ordering, cophonologies Problem: must posit a constraint that penalizes realization of a ver of the input (*RED). Such a constraint is unlikely to be useful outside lexemes in this one language. SOLUTION B: DIFFERENT INPUTS WITH SAME GRAMMAR Framework: gradient markedness Some elements in the input are "weaker" than other elements. (Sm Goldrick 2016; Zimmermann 2018). Idiosyncratic, alternate with zero, often (dis)appear to repair marked Both realization and deletion incur smaller violations than realizat deletion of stronger elements. 					
	Adverbial reduplication is	s strong in the	e input and is a	always realize		
	ADVRED-JIJAnae	WORDMIN	DEP	WIAX *		
	□ b. nəmae~nəmae					
	Infinitival reduplication is weak in the input and deleted if base is DEP >> MAX: Deletion is less costly than realization of a weak eleme					
	INFRED _{0.5} -Jionae			* 5		
	b. nəmae~nəmae		*.5 W			
	Reduplication is half in th	ne input and t	herefore less	costly than ep		
(8)	INFRED _{0.5} -Ug	WordMin	DEP	ΜΑΧ		
	a. ug	* W		*.5 W		
	b.ug~ug		*.5			
	Level ordering is required to order reduplication before other pro					
	such as epenthesis and vowel syncope.					
	INFRED- _A \sqrt{dma} dma~dme dəmadəme (11) PL-sit					
	INFRED- _B √SI	SI~SI	SIS (12	2)		

NPL-close



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edness. ion or

unmarked. ent.

penthesis.

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cts)' 'to close three or more things'

GRADIENT MARKEDNESS EXPLAINS WEAK ELEMENTS

WHY NOT AUTOSEGMENTAL DIFFERENTIATION (Archangeli 1983, **1991; Hyman 1985; Szypra 1992; Zoll 1996, 2001)?**

- connecting the segment to the tier.

WHY NOT LISTED ALLOMORPHS (Bonet et al., 2007)?

- repairs word minimality.

WHY NOT HARMONIC GRAMMAR?

Ahousaht, and Catalan)

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SELECTED REFERENCES

Lindsey, K L. 2017. Completing the typology: evidence for floating segments from Ende. Conference of the Australian Linguistics Society. Sydney, Australia. December 7. Smolensky, P. and M. Goldrick. 2016. Gradient Symbolic Representations in Grammar: The case of French Liaison. Zimmermann, E. 2018. Gradient Symbolic Representations and the Typology of Ghost Segments: An Argument from Gradient Markedness. AMP. TODAY @ 4:00 PM Zoll, C. 1998. Parsing below the segment in a constraint-based framework, CSLI, Stanford.





DISCUSSION

in Ende: floating nasals (Lindsey 2017), verb final-/n/ > in French: liaison consonants (Smolensky & Goldrick 2016) in Ahousaht: suffix onsets (Zimmermann 2018) > in Catalan: masculine plurals (Zimmermann 2018)

An autosegmental approach assumes that weak elements differ from full elements in that they lack the structural nodes

How to apply to a reduplicative morpheme which is assumed to lack the segments but consist only of the structural nodes?

> This would require listing allomorphs for all monosyllabic verbal roots and misses the generalization that infinitival reduplication

> Monosyllabic loan words undergo infinitival reduplication as well.

Traditional OT constraint ranking without weights is sufficient for modelling weak reduplication in Ende. (Perhaps not so for French,





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