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Main Claim

Tonal overwriting can be captured in a strictly concatenative approach by tonal circumfixes that result in overwriting to ensure morphophonological contiguity. This predicts cyclic overwriting (Inkelas 2014) triggered by positional faithfulness to tonal edges, (Jurgec 2011) but also countercyclic overwriting where inner affixes block effects of outer affixes.

Tonal Overwriting

Hausa Imperatives (Newman 2000:262-263)

Stem tone is replaced by LH-tone of the (Ø) affix :

Base Η HL tá:∫ì 'get up' HLH káràntá: 'read'

Imperative

LH

kwá:ná 'spend the night' LH kwà:ná 'spend the night!' LH tà:∫í 'get up!' LH kàràntá: 'read!'

Base Tone

Tonal Overwriting as an Argument for Construction Phonology (Inkelas 2014)

 \rightarrow

- Tonal Overwriting is affix-specific \rightarrow requires construction-specific phonologies
- Tonal Overwriting mirrors morphological cycles (outer constructions systematically overwrite inner ones) \rightarrow requires cyclic morphological domains for phonology (Construction Phonology \approx Cophonologies \approx Sign-based Morphology)

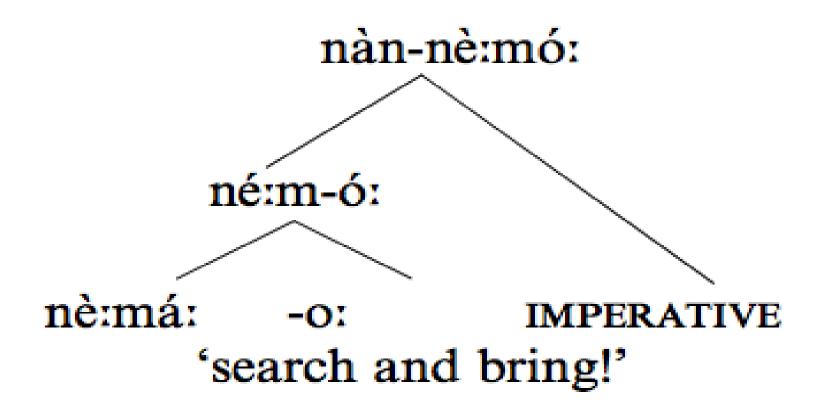
Overwriting is affix-specific

Non-overwriting in Hausa Verbal-Noun Formation:

	V	/erb	Verb	al Noun	
		\mathbf{U}		búgàː-wáː	
				káràntâ:-wá:	
				sánâr-wá:	
d. I	ĤL	cêx	ĤL-H	cêwá:	'say' (Newman 2000:705)

2 Overwriting is Cyclic:

Outer construction (imperative LH) overwrites inner one (ventive H):



(Imperative \otimes (Ventive \otimes (Verb))) (Inkelas and Zoll 2007:147)

A Circumfix Analysis of Tonal Overwriting in Hausa

1 Theoretical Background

135u	mpti	ions (T	rommer 201	1)		Constraints:				
 Colored Containment: Underlying material cannot be literally deleted, but might just be 						$egin{array}{c} \tau \ \downarrow \ \sigma \end{array}$	Assign * to every tone which is no dominated by a syllable			
ma	rked	as pho	netically	nvisibl	е.	CONTIGUITY	^t between	* to every n two tauto	omorphem	ic tones
Clo		of stand			constraints may be cally unrealized materi	al Max	Assign	* to every ich is not p	morpholog	gical asso
2 Ov	erwi	riting	vs. Non-	Overw	riting					
• Rv	Cont	tainme	nt lexical	tones	never fully deassociat	te, • Tonal pre-/s	suffixes =	⇒ contours	(or local o	verwriti
her	nce τ	$\rightarrow \sigma e$			on of floating tones in Formation (Suffix)	• Circumfixes		C		
her 1) <i>N</i>	nce τ	$\rightarrow \sigma e_1$			on of floating tones <i>in Formation (Suffix)</i> $\begin{bmatrix} \tau \\ \downarrow \\ \sigma \end{bmatrix} \underbrace{Cont_{\tau}}_{\tau} Max \parallel$			C	(Circumfix) τ	
her 1) <i>N</i>	nce τ on-O ²	$\rightarrow \sigma e_1$			$\begin{array}{c} \text{in Formation (Suffix)} \\ \hline \tau \\ \downarrow \\ \underline{\text{Cont}}_{\tau} \\ \text{Max} \\ \end{array}$	(2) Overwritin		C	$(Circumfix)$ $\downarrow \qquad \qquad$)
her 1) <i>N</i> Inpu	$ce \tau$	$\rightarrow \sigma e_1$	ting in Ver	bal Noı	$\begin{array}{c} \text{in Formation (Suffix)} \\ \hline \tau \\ \downarrow \\ \underline{\text{Cont}}_{\tau} \\ \text{Max} \\ \end{array}$	(2) Overwritin Input: = c.		mperative ($(Circumfix)$ $\downarrow \qquad \qquad$)
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her 1) <i>N</i>	f(t) = 0 H H H H H	$\rightarrow \sigma e r$	ta ta	bal Noi H wa	$\begin{array}{c} \text{in Formation (Suffix)} \\ \hline \tau \\ \downarrow \\ \underline{\text{Cont}}_{\tau} \\ \text{Max} \\ \end{array}$	(2) Overwritin Input: = c. L	H L H L + A ran	Temperative (H H + ta H H	$(Circumfix)$ $\downarrow \qquad \qquad$) <u>-</u> Max
her (1) N Inpu	$ce \tau$	$ \rightarrow \sigma en $ $ verwrit $ $ c. $ $ L $ $ $ $ ran $ $ L $ $ $	ta H L ta H L ta	bal Nor H wa H	$\begin{array}{c c} \textbf{I} \textbf{I} \textbf{I} \textbf{I} \textbf{I} \textbf{I} \textbf{I} I$	(2) Overwritin Input: = c. L L L L L L L L	Image in the IImage in the	$\frac{H}{ta} = \frac{H}{ta}$	$(Circumfix)$ $\begin{array}{c c} \tau \\ \downarrow \\ \sigma \end{array}$) T MAX ***

Overwriting by Positional Faithfulness to Edges

If peripheral tones are protected by positional faithfulness (3) *Imperative* \bigotimes (*Ventive* \bigotimes (*Verb*)) cons

constraints, outer affixes overwrite inner affixes: $Max \tau_{l} \begin{array}{l} Assign * to every initial morphological tone in a \\ PWord which is not phonetically realized \end{array}$	Input: = c.	$ \begin{array}{ c c c c c } Max & Max \\ \tau_1 & \tau_1 \end{array} \\ \hline \end{array} $	$\begin{array}{c c} \tau \\ \downarrow \\ \sigma \end{array} MAX \\ \end{array}$
PWord which is not phonetically realized			* ***
$Max_{I}\tau \begin{array}{l} Assign * to every final morphological tone in a \\ PWord which is not phonetically realized \end{array}$	\mathbb{R} a.ne: ma: -ooLHLHHHLHHHHHHH		
(cf. Jurgec 2010 on Edgemost Faithfulness)	b. ne: ma: -oo L H L H H H I <t< td=""><td>*! *</td><td>** **</td></t<>	*! *	** **
	c. ne: ma: -00		***

Anticyclic Overwriting (Zimmermann and Trommer 2015)

• The sign-based approach predicts that overwriting is always cyclic:

• Outer constructions should always overwrite inner constructions

• Two types of counterexamples from Dinka and Gã

nes

ociation

Globally Anticyclic Overwriting: Dinka:

Stem-Level Tone in Dinka (Andersen 1995, Trommer 2011)

a.		CV	C/H		b.	CVC/L			
	Ø	CF/B	CP	BAP		Ø	CF/B	CP	BAP
FIN	L	Н	L	F	FIN	L	F	L	F
1/3S	L	Н	L	F	1/3\$	L	F	L	F
PL	Η	Н	L	F	PL	Η	F	L	F
NF	F	Н	L	F	NF	L	F	L	F

Dinka: NoSkip outranks Positional Faithfulness

In	put	t: = c.					NoSkip	$egin{array}{c} \tau \ \downarrow \ \sigma \end{array}$	Max
		Η	L	H +	L	Η		· · · · · · · · · · · · · · · · · · ·	
RF	a.			σ				**	*
		H	L	H	L	H			
	b.			σ			*!	**	*
		Η	L	H 	L	Η		 	
	c.			σ				***!*	

Locally Anticyclic Overwriting: Gã

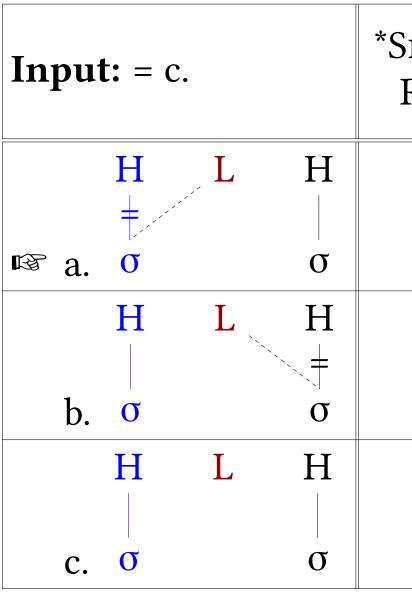
Tense/Aspect is structurally inside of Agreement:

mí- n- cha 1SG- Prog- dig	ʻI'm digging'	mí- ! chá -a 1SG- Hab- dig- Hab	ʻI dig habitually'
e- baá- cha	ʻI will dig'	é- ! lá	'he has sung'
3SG- Fut- dig		3SG-PerF-sing	(Paster 2000:8, Paster 2003:32)

Tense/Aspect Tone overwrites Agreement (Paster 2003:28–30):

Habitual	Perfective	Simple Past
(Underlying H/L-Tone)	(Grammatical H)	(Grammatical L)
1Sg mí-!lá-a	mí-cha	mi-dú
2Sg o -lá-a	ó -cha	o-dú
('sing')	('dig')	('cultivate')

Gã: Directionality outranks Edge Faithfulness



mfm 23 May 30, 2015

NoSkip:

Assign * to every unassociated tone which intervenes between two tones associated to the same TBU

pread Right	$\begin{array}{c} \tau \\ \downarrow \\ \sigma \end{array}$	Max
		*
*!		*
	*!	