

Yokuts templates are not emergent

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/ TEMPLATIC MORPHOLOGY AND TETU

Prosodic morphology, i.e., reduplication, truncation, root-and-pattern morphology
Usual result = easily definable structures
- Open syllable (reduplication)
- Perfect LL trochee
- Perfect LH iamb
Reduced markedness
e.g., no complex margins or codas in RED, but allowed in the language

1980s: Templates mold base forms into perfect prosodic units (M&P 1986; Archangeli 1983, 1991)

Since M&P (1994) templates don't exist, what appear to be templates are TETU effects:
The Emergence of The Unmarked
For Yokuts in particular, see Guekguezian (2017)

We argue here that Yokuts templates are *not* TETU

/ TETU IN OT

Shape of templatic morphology emerges from ranking of Markedness (M) constraints for regular prosodic patterns in the language and Faithfulness to the derived form (BD-F)

Basic ranking for language x:
M1 >> IO-F >> M2 >> M3

Restricted pattern in template:
M1 >> IO-F >> M2 >> BD-F >> M3

= marked structure, banned by M2,
tolerated in language generally (IO-F >> M2)
but not in prosodic morphology (M2 >> BD-F)

/ YOKUTS BACKGROUND

Penutian languages of central California

Yawelmani	Newman 1944
Chukchansi	Collord 1968
Wikchamni	Gamble 1976
Tachi	Britsch 1980

-very few fluent speakers now

Penultimate main stress

Simple onsets and codas.
V: → V in closed syllables

Epenthesis
Vowel harmony
Long vowel lowering

/ TEMPLATE SIZE

Multiple templates in the same language
they cannot all be TETU
each has marked bits that cannot be TETU

Multiple templates are shown for
Yawelmani (Newman 1944)
Chukchansi (Collord 1968)
Wikchamni (Gamble 1978)

CHUKCHANSI (fieldwork with Holly Wyatt)

(CVCV)-ʔa- DUBITATIVE.AGENTIVE

(xatʰ)-ʔa-ʔ	'eat-DUB.AG-NOM	/xatʰ/
(hatʰm)-a-ʔ	'eat-DUB.AG-NOM	/hatʰm/
(max)-ʔa-ʔ	'fetch-DUB.AG-NOM	/max/
(pʰan)-ʔa-ʔ	'arrive-DUB.AG-NOM	/pʰana/

(CVCa)-ʔa PRESENT

(xatʰa)-ʔa-n	'eat-PRES-FACT	/xatʰ/
(hatʰam)-ʔa-n	'sing-PRES-FACT	/hatʰm/
(maxa)-ʔa-ʔ	'fetch-PRES-FACT	/max/
(pʰana)-ʔa-ʔ	'arrive-PRES-FACT	/pʰana/

(CVCV)-iē AGENTIVE

(xatʰa)-ē-i	'eat-AGENT-ACC	/xatʰ/
(hatʰam)-iē	'sing-AGENT-NOM	/hatʰm/
(maxa)-ē-i	'fetch-AGENT-ACC	/max/
(pʰana)-ē-i	'arrive-AGENT-ACC	/pʰana/

(CVC), (CVCV), (CVCV), (CV:CV) see right >
can't all be TETU

/ THE YOKUTS PROBLEM

• Templates come in different sizes in the same language

(šipʰ)-ʔa-ʔ	'write-DUBITATIVE.AGENT-NOM		
(šipʰa)-ʔa-n	'write-PRES-FACT	/šepʰ-/	Chukchansi
(šipʰa)-ē-i	'write-AGENT-ACC		

• Templates may be prespecified for vowel quality (-a, -e) or glottalization

(hiwath)-ēʰin-at	'walk-DESIDERATIVE-DUR.PRES	/hiwitʰ-/	Wikchamni
(sataʔk)-a	'wake.up-CONSEQUENT.AGENT	/satak-/	

• Templates may violate general syllable restrictions (V:C)

(ʔu.ʔo)-l-s-uh.nu-ʔ	'play.music-CAUS/REP-AGENT-NOM	/ʔuʔu-/	Yawelmani
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/ TEMPLATE PRESPECIFICATION

Under- vs. prespecified

(CVCV)- Wikchamni

(tuwo)-ʔuē	'wet-AGENT	
(ʔuʂo)-ʔuē	'steal-AGENT	
(hoyo)-ʔoē	'name-AGENT	
(tawaʔ)-iē	'run-AGENT	
(ʔutʰo)-uē	'get.hungry-AGENT	
(hiweʔ)-iē	'walk-AGENT	

(CVCa)- Wikchamni

(hiwaʔ)-iʰ	'walk-PASS.AOR	
(ʔotʰo)y)-iʰ	'put-PASS.AOR	(rd harm)
(piwa)n)-iʰ	'sew-PASS.AOR	
(pʰuwa)s)-iʰ	'pound-PASS.AOR	
(ʔoto)-ʔotʰ	'peek-DUR	(rd harm)
(ʔuʂa)-aʰ	'steal-DUR	

(CVCe)- Chukchansi

(pone)y)-a-	'2-INCHO	/ponoy/
(šopʰe)y)-a-	'3-INCHO	/šopʰin/
(hate)p)-a-	'4-INCHO	/hatpanay/
(yetʰe)s)-a-	'5-INCHO	/yitšimil/
(ēʰole)jpʰ)-a-	'6-INCHO	/ēʰolippʰiy/

(CV:CVʔ)- Chawchilla (Newman 1944:52-3)

(lechiʔm)-a-	'run-CONTIN	/lihm/
(yoamʔx)-a-	'frighten-CONTIN	/yuumx/
(pewwi)n)-a-	'sew-CONTIN	/pewwn/
(herwiʔtʰ)-a-	'walk-CONTIN	/hiwetʰ/
(yawaʔl)-a-	'follow-CONTIN	/yawaʔl/

a., e., ʔ prespecification can't all be TETU

/ MARKEDNESS IN TEMPLATES AND DEFAULT STRESS

Many Yokuts templates are iambic: CVCV:, CVCa:, CVCe:, at least one is HL trochaic CV:CVʔ

Yokuts primary stress on *penult* (all languages), suggesting a word-final QI trochee (Newman 1944)
Secondary stress on non-final H syllables.
Reconfirmed by recent phonetic studies (Guekguezian 2014, Peed & Wyatt 2018).

(,ma)(,mi.la) 'blackberry-ACC'
(,mon)(,de.hil) 'gambled'

Yokuts stress: TROCH >> IAMB
So the many iambic templates are TETM.
Easily done in Direct OT, hard to do with TETU.

Guekguezian 2017 argues for a combination of iambs and trochees for this
but trochees suffice.

/ ANALYSIS

Direct OT (Golston 1996):
Lexical representations are constraint violations.

• Unmarked foot is (σ): *penultimate stress*

LL violates SWP
LH violates DEPμ
HL violates ITL

• Unmarked μ-insertion lengthens what's there

[e:] violates DEPμ
[a:] violates DEPμ
[ʔ] violates DEPμ

• Unmarked syllable structure is μμ
V:C rhymes violates *μμμ

cf. Bontok reduplication (Golston & Thurgood 03)

Intens	L	ka-kamaNan	'hurry a lot'
		la-layden	'like a lot'
Progress	H	ʔik-ʔikkan	'is doing'
		lab-labak	'is pounding'
Repetit	Ft	yangyu-yangu	'keep dancing (m)'
		sagni-sagni	'keep dancing (f)'

3 sizes of reduplicant can't be TETU.

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/ TEMPLATE SYLLABLE STRUCTURE

V:C vs. VX

(CV.CV:C) Yawelmani (Newman 1944:94)

(ʔu.ʔo)-l-s-	'play.music-CAUS/REP	/ʔuʔu-/
(ni.ne)-l-s-	'be.still-CAUS/REP	/ni.ne-/
(ta.ʔe)-l-s-	'come.to.life-CAUS/REP	/taʔal-/
(ʔo.pʰe)-l-s-	'get.up-CAUS/REP	/ʔopʰaxʰ-/

'This stem violates the rule of vowel shortening (§2:17). The o or e: vowel of the final stem syllable is not shortened, although that syllable is closed by the addition of the following suffixes.' (Newman 1944:52)

Phonetic processes. §2:17. In all dialects the closing of a syllable automatically shortens the vowel of that syllable. (Newman 1944:525)

We know of no similar fact elsewhere in prosodic morphology, templatic or reduplicative

/ WHAT'S REQUIRED OF ANY ANALYSIS

• At most one foot shape can be unmarked.
The rest violate FTFORM.

• Insertion of [mid], [low], [c.g.] violates DEP.

• Creation of superheavy violates *μμμ.

Given one grammar, only one type of object is TETU.

Co-phonologies might work, but still get TETU

No grammar prefers (CV:CV).
No grammar prefers (CV:CVʔ), (CVCe) feet.
No grammar prefers μμμ syllables.

How do we nail down the markedness?