

TONAL ASYMMETRIES BETWEEN WORD CLASSES AND WORD SHAPES AS A KEY TO TONAL RECONSTRUCTION

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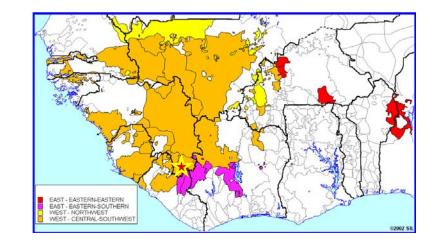




- Asymmetries in the tone patterns available for words of different categories and shapes
 - light (single TBU: monomoraic, monosyllabic) stems vs. heavy stems
 - verbs vs. nouns vs. other
- These asymmetries are usually in terms of subset inclusion relations (i.e. restrictions on the tone patterns available) rather than set intersection or set disjunction.
 - light (single TBU: monomoraic, monosyllabic) stems vs. heavy stems
 - verbs vs. nouns vs. other
 - all L pattern



- Guinean Kpelle
 (WM; Konoshenko 2018)
 - TBU = μ
 - 2 tone levels: L, H



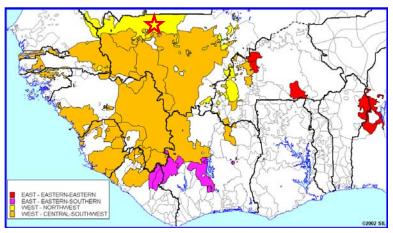
- **underived stems** distributed among 6 tone classes: H, L^H, HL, LHL, L, LH
- 1μ stems can be H, L or L^H..

e.g. monomoraic functional morphemes functional morphemes: $b\dot{\epsilon}$ 'here', $b\dot{a}$ 'on', $d\dot{i}^{H}$ 3SG.BASE

1μ verbs & nouns can be only H, e.g. yá '(n) water' and kó
 '(v) fight'

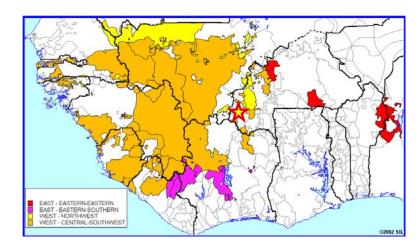


- Soninke
 (WM; Creissels & Urmanchieva 2018)
 - TBU = **o**
 - 2 tone levels: L, H
 - 1σ stems can be H, L and ^LH, but not HL (or LH).
 - 1σ verbs & nouns can be only H or ^LH
 - more generally, verbs, nouns & adjectives must have at least one H



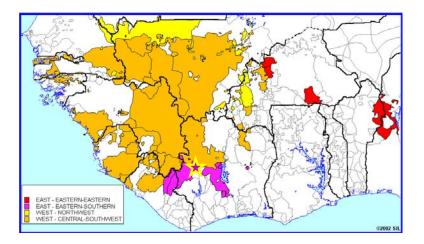


- Dzuun (WM; Solomiac 2007)
 - TBU = μ
 - 3 tone levels: L, M, H
 - 1μ stems can be H, M, M^H, L and L^H.
 - 1μ nouns can be H, M, M^H, L or L^H
 - 1μ verbs can be only H, M^H or L^H





- Such tonal asymmetries offer an invaluable window on the history of tone systems that have them.
- I will take Tura (SEM; Côte d'Ivoire) as an illustration of how tonal asymmetries can be fruitfully exploited for purposes of tonal reconstruction with some far-reaching implications for the tonal reconstruction of Mande as a whole.







- TBU = μ
- 4 tone levels: B ("bottom") à, L à, H á, T ("top") ấ
- 1µ stems can be B, L, H, T.
- 2μ stems are predominantly (N) / obligatory (V) flat (monotonal). 2μ N can sometimes have falling and rarely rising contours.





- major stem shapes \rightarrow nouns & verbs: CV, CVV, CVLV.
- minor stem shapes \rightarrow nouns: $CV(L)(V)\eta$, CVVV
- minor stem shapes \rightarrow functional morphemes: V, VV, Vŋ
- Stem weight:
 - In synchronic processes, morae tend to be preserved
 - Diachronically, 2μ maximality constraint vs. faithful preservation of the weight of 1μ and 2μ stems



TURA STEM SHAPES & WEIGHT

and the second second

η dốóồó=ầnấbé1SG.NSelder.brother3SG.NEG.PFV=3SG.NSgiveyet'My elder brother has not given it yet'.

→ ń d<mark>őòồóò</mark> nấ 6è



- The full 4 tone level range is exploited only on 2μ nominal stems and on 1μ personal pronominal stems (STAMPs)
- 1µ N stems can be T, H and B
- 1μ PP stems can be T and B
- 1µ V stems can be T and H
- HYP: 1µ V stems faithfully reflect the original 2-level tone
 system with the present T < *H and H < *L, while the present
 L and B also both go back to *L.





- **HYP:** In 1µ stems:
 - *H > T
 - *L > H, L, B
- We need to show that H, L, B in 1µ stems derive from one *L



- L has a clearly secondary status in the system, as it is only possible on a limited number of 1µ functional stems
 e.g. *lè* FOC, *zà* CONTR, *(y)à* 3SG.PRF
- tonal sandhi: μ H, L, B > L / _ final pause \rightarrow T vs. L (except: (i) H < *T, (ii) B / B _ final pause)
- In a 4-tone level system, we have at least 3 cases where the opposition is actually binary, viz. T vs. non-T:
 - T vs. H in 1μ V stems
 - T vs. B in 1μ PP stems
 - T vs. L for lexical H before a final pause.
- What is the status of the **B** tone in 1µ stems, especially nouns?



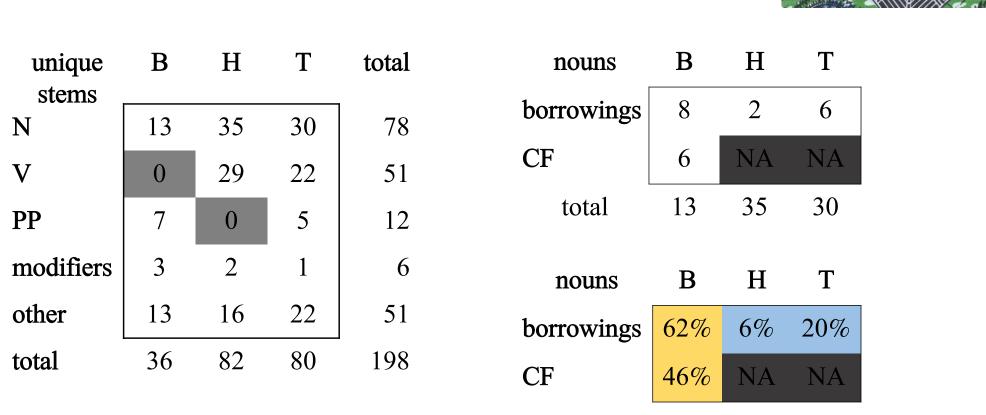
B TONE IN 1μ STEMS

unique stems	В	Η	Т	total
N	13	35	30	78
V	0	29	22	51
PP	7	0	5	12
modifiers	3	2	1	6
other	13	16	22	51
total	36	82	80	. 198

unique stems	В	Η	Т
Ν	36%	43%	38%
V	0%	35%	28%
PP	19%	0%	6%
modifiers	8%	2%	1%
other	36%	20%	28%
total	100%	100%	100%

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B tone in 1 μ nouns



- B tone is also a grammatical replacive tone in [N1 N2] head-marked possessive construction, where N1 is a (non-specific) modifier and N2 is the head (in its Construct Form marked by B tone).
- A very high proportion of B tone 1μ nouns are transparent borrowings and CF \rightarrow B tone should not be reconstructed.



- A very high proportion of B tone 1μ nouns are transparent **borrowings** and **CF** \rightarrow **B tone should not be reconstructed**.
- **B tone** is also a grammatical **replacive tone** in some **verb forms**
- B tone is likely to have entered the system primarily through the evolution of the tone of the 3SG.NS pronoun *à, which has also been the source of the tone of the CF marker
- The role of the B tone in the system was later reinforced by borrowings
- Compare Dwyer (1973), who argues for **SWM** that most new tone patterns entered the system through the grammatical tone in [NN] modifying constructions (compounds).





- 2μ stems are predominantly (N)/ obligatory (V) flat
- Only 2µ Ns can be all B.
- A high proportion of all B 2µ Ns are probable borrowings and CF, as well as proper names → all B tone pattern in 2µ Ns should not be reconstructed.



$2\,\mu$ nouns & verbs



- 2µ stems with flat tone patterns other than all B can primarily be reconstructed as follows:
 - TT < *HH
 - HH < *HL
 - LL < *LH
- But the reconstruction is more complicated than in 1µ stems...



	Tura (4 levels)	Dan-Gw (5 levels)	G. Mano (3 levels)	
*H	Т	Н	Н	*dó 'go'
*L	Н	М	М	*pà 'fill'
*HH	TT	Т	HH	*táá 'walk'
*HL	HH	?M	?M(M)	*dɔɔ̃̀ 'cough'
*LH	LL	В	В	*kòó 'hand, arm'

- Some irregularities:
 - * yíi 'water': Tura yí, Dan-Gw yí, Mano yíi but Tura has regular yíi-yè 'wet' (-yè NMLZ)
 - * yấấ 'eye': Tura yấ, Dan-Gw yấ, Mano nèē but Tura has regular yấấ 'sight'



• Even such exuberant tone systems as that of the languages of the **DMT group** with their 3-5 tone levels can be safely brought back to an **earlier 2-level tone system**.

Most likely, the emergence of new tone levels in DMT postdates the split of the DMT group.

 Given that the same can also be argued for the tone systems of WM languages which are usually much more modest (cf. Dwyer 1994 on Bobo), Proto Mande can be equally safely reconstructed with just two tone levels.





- Proto-Mande distinguished between CV and CV: stems
- TBU = μ (CV stems could be only L or H, while CV: stems could also have contours, at least LH)
- In Proto-Mande, **personal pronouns** of all persons were ***L**.

In Tura, non-subject personal pronouns are 1μ stems with H, L or B tone all reflecting *L.