

Dogon (Berlin (post-Greenberg workshop) Feb 2010)

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current Dogon and Bangime project (<http://www.dogonlanguages.org>)

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wider relationships of Dogon?

overview of previous internal classifications

Plungian & Tembiné 1994

Central or “So”: Toro so, Dono so, Tommo so

South-Eastern or “Kan”: Tomo Kan, Togo Kan, Tengu, Jamsay, Toro Tegu

Northern: All the other languages (incl. Bangime)

SIL survey (Hochstetler et al.) 2004

<http://www.sil.org/SILESR/2004/silesr2004-004.pdf> (includes references to early classification)

Roger Blench's websites

typical Dogon structures

NP:

full form: Poss[NP or pronoun] [[[Noun Adj*] Num] Dem/Def (Pl) 'all' Topic]

referentially restricting elements (Poss, Adj, Dem, sometimes Def) control tone contours on (at least) the noun

Poss usually controls {L} or {HL} on at least the following N-Adj sequence

Adj usually controls {L} on preceding noun or adjective (recursive) [except Mombo]

Dem usually controls {L} on preceding N-Adj and Num

non-referentially restricting elements (Num, 'all', Topic, sometimes Def) do not control tone contours

Noun + Num: no tonal interaction, both Noun and Num have lexical tones

(but: Num may be target of tone contour controlled by Dem)

as relative head: (Poss[NP or pronoun]) [[[Noun Adj*] Num] ... *verb-Participle* [Dem/Def (Pl) 'all' Topic]

i.e. head NP split, with Poss-N-Adj-Num remaining in situ, while late-NP elements migrate to postverbal position

so: NP structure expressed by a) linear order; b) tone-contour controller-target relations; c) breakpoint of relative-head NP elements

clause:

main clause: (Adv) S[NP] O[NP or pronoun] verb-TA/Neg-subject[pronominal] Past

relative clause: subject-inflected verb replaced by participle (sometimes agreeing in features with head NP)

head NP remains in situ but is identified by a) additional tone-contour marking, b) shift of NP-final elements to postverbal position
in nonsubject relatives, if subject is pronominal it is expressed by a special set of preverbal clitic pronominals

tones and "intonation"

syllables (<...> notation): <H>, <L>, <HL>, <LH>, occasionally <LHL>

except in Yanda Dom, each stem ({...} notation) has at least one H-tone element: {H}, {HL}, {LH}, {LHL}, rarely {HLH}, but not #{L}

verbs derivations: suffixal: Reversive ('un-'), Causative, some Mediopassive/Transitive pairs

tight restrictions on lexical tone contours of verb stems

lexical contour {H} with initial voiceless obstruent, {LH} with initial voiced obstruent, otherwise lexically {H} or {LH}

tone break in {LH} in trisyllabic stems is LLH or LHH, with break near right or left edge, depending on the language

tight restrictions on possible vowel sequences of bisyllabic verb stems

same non-high vowel {e e a ɔ o} repeated: CaCa, CeCe, CoCo, ...

initial high vowel plus mid-height vowel agreeing in back/front and rounding: CuCo, CuCɔ, CiCe, CiCɛ

so: total of 9 vowel-quality types for bisyllabic verbs

trisyllabic verb stems may or may not weaken the middle vowel (becoming high)

e.g. CaCaCa or CaCiCa, depending on the language

several languages also have a distinct set of verb stems with final high vowel (CaCi, CaCiCi, etc.), with distinctive paradigms

Bangime versus Dogon

Bangime villages at the end of a long canyon (geographic isolation)

now being studied by Abbie Hantgan

Phonology: an opposition *w* / *ɥ* [high front rounded semivowel] ; *h* occurs in native vocabulary

Morphosyntax:

✓ main clause word order: S Aux O V X / SVO (depending on TAM category)

✓ isolating verb morphology

- (1) ñ dáđ ké ñáw à wê:
1SG IPFV thing give 2SG for
'I give you something'.

- (2) àó dègú à jà:mbé
 2PL hit DET child
 'You-PL hit the child'.

✓ relative clause:

- (3) à dúwá hùⁿ mà: kóré kó péndé
 DET tree on 3SG stomach CONJ explode
 'The stomach that fell on the tree explodes'.

✓ lexicon: not more than 10% Bangime cognates in a Swadesh list with any Dogon variety (not less than c.a. 40% for a pair of Dogon languages)

back to Dogon: nominal morphology

many languages have suffixal distinctions (marked on the noun, the adjective, or both)

nominal/adjectival suffixes:	Jamsay	Ben Tey		Nanga	Yanda Dom	Toro Tegu	Tommo So	proto
	N or Adj	N	Adj					
human (or animate) Sg	-n	-m	-m	-Ø (-ŋ)	-Ø	-r ⁿ u/-nu/-n	-nɛ	*-nu (cf. *nu- 'person' ?)
human (or animate) Pl	-m	-Ø	-yè	-Ø	-mu	-m(u)	-m	*-mu (or *-n-bu ?)
nonhuman (or inanimate)	-Ø	-Ø	-w	-Ø	-Ø	-Ø	-Ø	

languages with weak or no N/Adj distinctions mark Sg/Pl and animacy distinctions (more fully) in following determiners

optional Pl particle late in the NP (usually *be*), mainly for nouns that have no Pl suffix (kin terms, nonhumans)

notes:

Nanga -ŋ only in *yǎ-ŋ* 'woman'; some adjectives have Ben Tey-like distinctions in predicative function;

more complex systems in Najamba-Kindige (aka "Bondu") with some parallels in Mombo (aka "Kolu") and Ampari:

Najamba

objectively inanimate nouns belong to "(pseudo-)animate", E/E inanimate, or O/E inanimate classes

pseudo-animates include weapons, pointed/bladed implements, stones, vehicles, pants/shoes, fans, musical instruments, 'fan', 'apiary'

only one plant term (*Tribulus terrestris*, a prostrate herb with sharp-pointed fruits)

nouns and adjectives have either clearly segmentable suffixes, or final-vowel mutations (front/back, here "E" vs. "O")

	suffixes	final-vowel quality
animate Sg	-Ø	E
animate Pl	-mbo	O
inanimate Sg	-ŋgo (O/E class), -ŋge (E/E class)	O (O/E class), E (E/E class)
inanimate Pl	-Ø	E

note that the final-vowel alternation is Sg/Pl E/O for animates, but O/E or E/E for inanimates

adjectives agree with nouns

adjectives with final-vowel mutations are (Sg/Pl) E/O (animate), O/E, or E/E, respecting the class of the noun (or referent)

determiners also agree with nouns

the inanimate "class" system might be innovative (suffixes and final vowels reflect cliticization/fusion of particles)

O/E is the common inanimate class, compare inanimate determiners such as Toro Tegu Sg *ko*, Pl *ke*

E/E class contains

topographic terms (cf. noun *kéŋgé* 'place'), holes, dwellings, time

terms for liquids (cf. *íŋgé* 'water')

some body parts ('head', 'body', 'nose', 'wing', ...)

this class may have originated from use of *kéŋgé* 'place' and *íŋgé* 'water' as postnominal classifiers (if originally monomorphemic)

most stems with final-vowel mutations end in long vowels (suggesting historical contraction)

historical hypotheses

-mbo, *-ŋgo*, *-ŋge* suffixes may be frozen combinations of a word-final nasal plus *bo, *go (*ko), *ge (*ke)

Najamba Animate Pl *-mbo* may consist etymologically of

Human/Animate Sg suffix *-n (*-nu), perhaps itself < *nu- 'person', plus

Pl particle *bo

Human 3Pl pronoun *bó* (Yanda Dom), *bû:* (Beni etc.)

Human 3Pl pronominal-subject *-bo/-ba* on verb (Jamsay, Beni, ...)

cf. widespread nominal Pl particle *be* (also 3Pl pronoun as in Toro Tegu)

Najamba Inanimate Sg *-ŋgo* (majority class), for some stems just *-go*, may consist etymologically of

a stem-final nasal consonant (resegmented as part of suffix, and partially generalized), plus

*ko/kɔ cf. Nonhuman 3Sg pronoun *ko\kɔ* (Toro Tegu, Jamsay, etc.)

originally reduced from noun 'thing': Beni *kó:'n*, Nanga *kó(ŋ)*, Najamba *kóŋgò* (< *kóŋ gò)

also in pronominal possessives (Najamba, Nanga): Najamba *bǎ:-gò [mí gò]* 'my stick'

Najamba final-vowel mutations, e.g. *nálé:/ nálá:* 'good', suggest historical contraction of stem with following CV morpheme

inanimate O/E (majority inanimate pattern), e.g. *nùmǎ:* 'hand', Pl *nùmě:*

Inan Sg *ko/kɔ and Inan Pl *ke/ke contract with stem to create O/E alternation

animate E/O pattern (front vowels in Sg, back vowels in Pl), e.g. *ínè* 'goat', Pl *ínà:*

Pl *bo contracts with stem to create O type

Sg polarizes to E by analogy to inanimate, if not already polarized to Pl (??)

Najamba Inanimate Sg *-ŋge* (minority class) and E/E vowel-mutations: various historical possibilities

a) Inanimate Sg class distinction *ko/kɔ versus *ke/ke is ancient and irreducible

b) *-ke variant of Inanimate Sg *-ko due to progressive assimilation, later morphologized

c) *-ŋge* and E/E final-vowel mutations reflect contractions with 2 nouns used as postnominal classifiers

Najamba *kéŋgé* 'place', *íŋgé* 'water'

hypothesis (a) or (b) most likely since Mombo has frozen cases (no longer segmentable) of *-ŋge* and *-ŋgo*

Mombo singular nouns: -Ø

plural nouns:

-*ηge* for some human nouns, if added directly to stem

-*ge* for other human nouns (and all nonhuman nouns)

ge clitic (particle) if separated from noun (by adjective, etc.)

Ampari all nouns: Sg -Ø, Pl clitic *ge*

apparent frozen Mombo Inan Sg *-*ηge* (arguably fronted from *-*ηgo* after stem-final front vowel)

a) *Najamba* has -*ηgo* in Sg

'(a) grain/'millet'	Najamba Pl/Coll <i>sê:</i> 'grains', Sg <i>sê:-ηgò</i> Mombo <i>sé:ηgè</i> 'millet' (Pl <i>sé:ηgè gè</i>)
'firewood'	Najamba Pl/Coll <i>té:</i> , Sg <i>té:-ηgó</i> Mombo <i>té:ηgé</i>
'peanut'	Najamba Pl/Coll <i>élé:</i> , Sg <i>élé:-ηgó</i> Mombo <i>ílóηgé</i> [note disharmonic <i>ɔ/e</i> combination]

b) *Najamba* has -*ηge* in Sg

'cow-pea'	Najamba Pl/Coll <i>númbé:</i> , Sg <i>númbú:-ηgé</i> Mombo <i>núηgé</i>
'blood'	Najamba Pl/Coll <i>gě̀n:</i> , Sg <i>gě̀n:-gé</i> Mombo <i>gè:ηgé</i>

apparent frozen Mombo Singular *-*ηgo*

'tree/shrub'	Tommo So <i>tínú:</i> (also Toro Tegu <i>tírⁿi:</i> , etc.) 'firewood' Mombo <i>tíníηgò</i> 'tree/shrub'
'charcoal'	Najamba Pl <i>kùmá:</i> , Sg <i>kùmá:-ηgó</i> Mombo <i>ké:ηgó</i>
'place'	Yanda Dom <i>òmó:</i> Mombo <i>ó:ηgò</i>
'place, site'	Mombo <i>éηgò</i>
'(emotional) heart'	Mombo <i>dóηgò</i>

verbal suffixal morphology (verb-TA/Neg-Subject)

a) various (tense-)aspect suffixes with distinct positive and negative forms)

Jamsay: Perfective: unmarked -Ø, marked -*tĩ-* (most transitives) or -*yè-* (most intransitives)

Perfective Negative: -*lí-*

Imperfective: unmarked -Ø (final floating L-tone), marked -*arâ-* and -*tòyò-*

Imperfective Negative: -*gó-*

TA/Neg categories (suffixal, but also unsuffixed Imperative) affect form of stem:

a) stem-wide tone contour, e.g. {L} before Negative suffixes (Jamsay), or:

b) more limited tonal change, and/or:

c) stem-wide [+ATR] vocalism

b) final pronominal-subject suffixes (four structural patterns)

	Jamsay	Ben Tey	Togo Kan (Perfective)	Toro Tegu
1Sg	-m	-y	-ε	
2Sg	-w	-w	-ε	[no suffixes]
3Sg	-Ø	-Ø	-ε	
1Pl	-y	-y.:	-sè ⁿ	
2Pl	-be	-w.:	-sè ⁿ	[no suffixes]
3Pl	-ba (-bɔ)	-bɔ	-sè ⁿ	

Imperfective positive paradigm often presents special morphological features (not shown)

Jamsay type: suffixes are essentially autonomous; likewise Najamba-Kindige

Ben Tey: 1Pl and 2Pl formed from corresponding singular by dying-quail intonation (:.), likewise Nanga, Walo

Sg/Pl likewise distinguished by intonation in independent pronouns

Togo Kan: reduced to Sg/Pl distinction (actual forms vary by TA/Neg category), likewise Tegu Kan

Toro Tegu: no suffixal paradigm, clause-initial particle (1st/2nd person) or postverbal clitic (3rd person); Mombo similar

history: Jamsay type might be archaic (especially core opposition 1Sg, 2Sg, 3Sg, 1Pl)

3Pl forms highly variable (across languages, and within each language by TA/Neg category)

-*ba/-bɔ* forms (Perfective positive) probably from a 3Pl independent pronoun

2Pl forms also somewhat unstable

-*be* perhaps from Pl *bé* particle in NP

examples of consonantal correspondences

	'skin'	'millet beer'
TT	<i>gùsú</i>	<i>kò"só</i>
Jm, Pr, Gr	<i>gùjú, gùsú, gùsú</i>	<i>kàñó, kànjó, kàsó</i>
Be, Wa, Nn	<i>gùsú, gùsú, gùsí</i>	<i>kànjó, kàzò, kànjó</i>
Nj, YD	<i>gùjú, gùzú</i>	<i>kànjé, kànzò</i>
Tm	<i>gùdú</i>	<i>kànjó</i>
Tg	<i>gǐyé</i>	<i>kèñé</i>
Mm	<i>gújù</i>	<i>kóndyò</i>

word-initial

TT	[Jm	Pr	Gr]	[Be	Wa	Nn]	[Nj	YD]	Mm	Tm	Tg
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1a (before back or low vowel)

g	[g	g	g]	[g	g	g]	[g	g]	g	g	g
---	----	---	----	----	---	----	----	----	---	---	---

*_usu (*_uju) 'skin' (and others)

1b. (before high front vowel)

j	[j	g/j	g]	[g/j	j	g/j]	[g/j	g/j]	-	g	g
---	----	-----	----	------	---	------	------	------	---	---	---

*_em 'black', *_eme 'pinch', *_esu/*_osu 'body'

reconstruction: *g, with some palatalization to *j* before front vowel (1b)

2	z	[j	j	z]	[j	z	j]	[j	z]	j	j	j
---	---	----	---	----	----	---	----	----	----	---	---	---

*_e(re) 'bring', *_ije/*_ige 'twin', *_oju 'treat (medically)', *_eyε/*_ojo 'fight', *_ε 'marry (woman)', *_iye/*_jolo 'take (sth) away', *_anga 'pound into dough'

reconstruction: *j (or *z)

similar item with divergent reflex in TT:

y (!)	[j	j	z]	[j	z	j]	[-	-]	-	j	-
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*_iwo/*_uwo 'fan (sb)'

3.	s	[s	s	s]	[s	s	s]	[s	s]	s	s	s
----	---	----	---	----	----	---	----	----	----	---	---	---

*_suju(ru) 'ear' (and others)

reconstruction: *s

4. nasality in Jm(-Pr?) and Be, but not Tm (YD unclear)

nasal	?	[√	?]	[√]	[?	?		
	-	[ñ	-	s]	[nj	-	-]	[-	-]	-	d
*dɔ_ɔ 'butt (with head)'											
	-	[ñ	-	s]	[nj	s	s]	[j	-]	-	d
*ki_u 'grain spike'											

5. nasality in (Jm-)Pr and Tm only (YD and Nj unclar)

nasal		[?	√]	[√	?]	[?	?	√	√	?
	s	[-	nj	-]	[nj	z	s]	[-	-]	nj	nj	-
*ga_a/*ga_i 'dig'												

6. nasality in Jm and Tm only

nasal		[√]	[]	[√	√	?
	-	[ñ	s	s]	[s	s	s]	[j	z]	nj	nj	-
*mu_u 'thousand'												
	s	[ñ	s	s]	[s	s	s]	[-	-]	-	-	-
*m(b)ɔ_u 'bad'												

rconstruction: perhaps *s with secondary nasalization to *ns in Jam and Tm due to initial *m

7. nasality in Jm-Pr only (not Tm)

nasal		[√	√]	[]	[?]	?		?
	s	[ñ	nj	s]	[s	s	s]	[-	z]	-	d	-
*oo_o/*u_o 'wind; air'												

8. nasality in TT and in Be-Wa-Nn group only

nasal	√	[]	[√	(√)	√]	[?
	ⁿ s	[j	s	s]	[nj	z	nj]	[j	z]	j	d	-
*o_u 'younger same-sex sibling', *si_e 'draw (lines)'												

9. nasality in TT only (perhaps a mutation)

nasal	√	[]	[]	[]	?		
ⁿ s		[j	s	-]	[s	-	s]	[j	z]	-	d	j	

*too_u 'testicles'

10. nasality in Tm only

nasal	?	[]	[]	[?	?	?	√	?
-		[j	s	s]	[s	s	s]	[-	-]	-	ɲj	-

*ba_a 'pull; draw (water)'

11. nasality in TT and Jm only (Tm *d* versus *s*)

nasal	√	[√]	[]	[?			?
ŋg		ñ	s	j]	[s	s	s]	[j	-]	j	d	-

*su_uro/*su_e 'wipe'

ⁿ s		[ñ	-	-]	[-	-	-]	[-	-]	-	s	-
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*u_u 'thin'

12. nonhomorganic nasal-obstruent cluster (*ms or similar)

-		[nñ	mj	ms]	[mj	-	-]	[-	-]	-	-	ñ
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*ga_a 'wing'