Preliminary statement of Katu orthography in Lao script

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The Katu people are a group of approximately 52,000 people in Quang Nam province in Vietnam, and Xe Kong and Salavan Provinces in the Lao People's Democratic Republic. The language belongs to the Katuic branch of the Mon Khmer language family. The language was analysed in Vietnam by Nancy Costello and Judy Wallace, and 'Katu Phonemes' by Judith M. Wallace appeared in *Mon-Khmer Studies* 3-64-73 (1969).

Nancy Costello worked in Vietnam for thirteen years and published a reading primer in 1967, a revised primer in 1976, a Katu vocabulary in 1971, and a Katu dictionary in 1991. This dictionary contains over 3,500 entries. These used a romanised alphabet. Since 1991 she has worked in the Lao PDR under the Institute for Research on Lao Culture and the Ministry of Information and Culture. Three books on Katu culture have been produced: Katu Folktales and Society, Belief and Practice in Katu Agriculture, and Katu Traditional Medicine. These three books are in Lao, Katu, and English. This paper describes the Lao script used to write Katu in these culture books, which is an adaptation of the alphabet used for Katu in Vietnam. Further testing is being done since it has only been possible to work extensively with one Katu speaker in Lao PDR, although trips were made to the Katu area in 1993, 1994, and 1995.

This paper covers both the Katu Vietnam and Katu Lao PDR dialects, since there are only a few predictable phonetic differences. The greater differences are vocabulary. There are Lao villages near the Vietnamese border which speak the Vietnamese dialect.

The purpose of this paper is to show some of the complications involved in writing a Mon Khmer language in a Lao-based, script and some of the solutions which are being tried. The aim was to produce an orthography which Katu speakers feel represents their language, one which can be typed on a Lao typewriter and which is readable by and acceptable to Lao speakers. The latter is very important. All stages of the orthography were checked with Dr. Thongpheth Kingsada of the Institute of Research on Lao Culture, and the Ministry of Information and Culture.

It is important in formulating any orthography to take note of the readers' reactions. The most scientific orthography may be rejected if the readers are not happy. The authors were constantly balancing the scientific solution with the readers' reactions.

1. Initial single consonant phonemes with suggested Lao script orthography.

	bilabial	alveolar	alveopalatal	velar	glottal
vl.	p ป	t n	c (tš) 🤏	k n	
stops aspirated	ph w	th ທ	s (s) 2	kh ถ	
vd.	b U	d ຄ	j (dž) ŋ		
preglottaplized	?b ස	?d ŋ			າ ອ*
nasals	m N	n ນ	ñ ย	ŋ ŋ	
continuants					h ర
laterals		l ລ			
vibrants		r S			
semivowels	v ə		y દા		
			?y J		

^{*} Lao script for Katu marks all initial (and medial) glottal stops (ie. initial vowels) with 8, following Lao conventions. Please refer to the vowel chart for presentation of final glottal stop.

Notes on single consonants:

/c/ [tš] is a voiceless alveopalatal affricate.

/s/ in the Lao dialect is a voiceless alveopalatal fricative. In the Vietnam dialect it is pronounced as /ch/ [tšh], a voiceless aspirated alveopalatal affricate.

The Lao dialect does not have /g/, although the Vietnam dialect does.

Katu has four consonant sounds which Lao does not have. They are /lb/, /ld/, /ly/ and /j/. At first the authors thought of using existing Lao signs to represent these, and adding a feature, such as [--] for /lb/, but creating new signs causes problems when using typewriters. They therefore decided to use signs which are on Lao typewriters, and were the closest phonetically, and so are representing the new consonants as follows:

This sound is a preglottalized voiced bilabial stop. In Lao it is [ph]. This sound is a preglottalized voiced alveolar stop. In Lao it is [th]. This is a preglottalized voiced alveopalatal affricate. In Lao it is [ia]. This is a voiced alveopalatal affricate [dž]. This sound is not found in Lao, so we have used a sign which is found on Lao typewriters, the sign for etc. since the Katu would probably not use it.

The sign for /ld/ was used in the past (1975) for the Love language, a Mon Khmer language close to Katu. The above signs are being checked with other speakers and may need to be changed later.

A word in Katu of Lao PDR has a maximum of two syllables, a main syllable and a presyllable which may be an affix. The main syllable may consist of C1C2V, C1V, C1VC, C1C2VC3. C1 may be filled by any initial consonant except in a C1C2 cluster. C2 can only be filled by /r/ or /l/.

Examples of single initial consonant phonemes:

/p/	pa?	ปะ	'to save'
/t/	tak	ຕັກ	'to spear'
/c/	cha	ବ୍ୟ	'to eat'
/k/	kiaŋ	ກຽງ	'to want'
/b/	bas	ກຸງ ບໍ່ຊ	'to sacrifice'
/d/	di:k	ດັກ	'to wear headband'
/j/	j∧t	ແ•ຼງິຕ	'ten'
/s/	sen	u29	'to hear'
/?b/	?bŏŋ	ຜູ້ອີງ	'hole'
/?d/	?doŋ	ຖອງ	'tree'
/ly/	?yaŋ	_{] ไ} กา	'spirits in trees, air, ground'
/ph/	phare	พะเธ	'danger'
/th/	thiar	ເທື່ອຣ	'generous'
/kh/	khe	ខេ	'top end (of field)'
/1/	?a?a:p	ອະອາບ	'to yawn'
/m/	meh	แท้ส	'to wake up'
/n/	nak	ນັກ	'classifier for people'
/ñ/	ñan	<mark>ຍ</mark> ັນ	'to ask for something'
/ŋ/	ŋin	ງິນ	'wind'
/h/	hiap		'to cheat'
/1/	lny	ແລຍ ແລຍ	'to see'
/r/	ria?	ເຣັຍະ	'salty'
/v/	veil	ແວລ	'village'
/y/	ya?	ยะ	'self'

2. Initial consonant clusters

A number of consonants may occur in clusters with /l/ and /r/. They are:

/pr/	prah	ปรัช	'to wash hand'
/br/	bria?	ເບຣັຍະ	'to hang up'
/tr/	trờŋ	ຕຣັອ໋ງ	'tomato'
/dr/	drš	ດຮອ້	'one stringed violin'
/cr/	cruah	7808	'to pound 2nd time'

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/sr/	sran	ຊຣາງ	'to lose way'
/pl/	plak	ปลัก	'to snap'
/bl/	blšt	ບລັອໍດ	'dark'
/?bl/	?blŏ	ຜລອໍ	'ashes'
/kl/	kla:?	ກັລາ	'sunrise'
/khl/	khluŋ	ຄລຸງ	'flat ground'

3. Syllabic nasals

One of the most significant differences between the Vietnam and Lao dialects is in the use of syllabic nasals. In the Vietnam dialect, a number of consonants may occur with the syllabic nasals /m/, /n/ and /ŋ/. There can also be a syllabic nasal plus a consonant cluster, such as /mpr/, /ndr/, /ŋkl/. The Katu Lao dialect is losing the syllabic nasal. It is either very light or not pronounced. One Katu speaker does not hear it when he says it lightly, and does not want to write it. In the Lao dialect, the syllabic nasal is replaced by /am/, /an/ or /ang/. The following list shows syllabic nasals in the Vietnam dialect, followed by examples fom the Lao dialect.

Vietnam dialect

V ICCII AIII	diaicci	
/mp/	mpan	'maggot'
/mb/	mban	'branch'
/mbl/	mbl ž iy	'young man'
/mm/	mma	'seed'
/mph/	mpherp	'kind, friendly'
/mr/	mreh	'sick with worms'
/mpr/	mpreh	'to chop'
/nc/	ncay	'body louse'
/nd/	ndi?	'where'
/ndr/	ndran	'stalk of plant'
/n?d/	ņ?dǎŋ	'chaff'
/nj/	njak	'French person'
/nk/	ņķir	'to remember'
/nl/	ἡla	'afraid, worried'
/nt/	ņtat	'torn'
/nth/	ntham	'greedy (eating)'
/ny/	ņya	'rice, manioc wine'
/nŽy/	ņ?yal	'loincloth'
/ŋh/	ŋham	'bone'
/ŋj/	nji?	'to break crockery'
/ŋk/	ŋkal	'rotten'
/ŋkl/	ŋkləːc	'to cut notches in tree'
	•	

Lao dialect

?am	?ambe:h	ອຳເບຮ	'goat'
?am	?ammo	ອຳມໍ	which'
?an	?andai	ອັນໄດ	'by self'
?aŋ	?anhi:l	ອັງຮິລ	'light (work)'
?aŋ	?aŋkar	ອັງຮິລ ອັງກັຣ	'skin'

4. Final consonant phonemes with suggested Lao script orthography

	bilabial	alveolar	alveopalatal	velar	glottal
stops	p ប	t ព	C 9	k n	? 8
nasals	m n	n ນ	ที มย	ŋŋ	
continuants			s g		h 🕇
laterals		1 ລ			
vibrants		r S			
semivowels	w ə		y e		
	w? xัออ		y? x้อย		

Word initial and medial /s/ is complemented by /yh/ word finally. The final /s/ is realized phonetically in the Vietnam dialect by [ih], and in the Lao dialect by [s].

We follow Lao by using /U//b/ and /n//d/ for /p/ and /t/ word finally because there are no voiced stops word finally. *

Khamluan is not altogether happy about using /5/ for final /h/. He does not think of it as a consonant like other final consonants. It may be better to use a Lao tone for final /h/ as is done for a final glottal with a long vowel.

Lao does not have a final $/\tilde{n}$, but since Lao uses the symbol which represents $/\tilde{n}$ initially to represent /y finally, it was decided to represent the final $/\tilde{n}$ / differently from the initial $/\tilde{n}$ /.

In phonemic notation, a final glottal stop is denoted by q. In Lao script, a final glottal is inherent for short vowels where there is no following consonant and is thus marked only when it follows a long vowel or i-glide. Please refer to the vowel chart for details.

Examples of single final consonant phonemes:

/p/	kap	ກັບ	'to bite'
N	patet	ปะแถ้ด	'joint'
/c/	pac	ปัจ	'to pull out weeds'
/k/	?asnk	ອະແຊັກ	'taboo'
/m/	tam	ດຳ	'black'
/n/	?akan	ອະກັນ	'mother'
/ñ/	pañ	ปั้นย	'to shoot'
/ŋ/	piŋ	ປັງ	'grave'
/h/	ranah	ระมัธ	'waste'
/\/	bə:l	ເບິລ	'to comfort'
/r/	par	ี ปุธ	'to fly'
/u/	ralaw	ຣະເລົາ	'valuable'
/s/	carais	7 6512	'comb, to comb'
/w?/	radaw?	ຣະເດົາ	'to arrange tidily'

5. Presyllables

The Katu word in Lao has a maximum of two syllables, a main syllable which can be preceded by one presyllable. In Vietnam there may be three presyllables, since affixes may be bound to the word as presyllables. In Lao, a presyllable may be filled by C1C2V, CVC or CV. A C1C2V presyllable may be filled by /pra/ or /tra/. A CVC presyllable may be filled by /bar, kar, mar, par, phar, sar, tar, or thar/ or by /?am, ?an, ?an, ?an, ?ar/. In the Vietnam dialect this latter group is represented by a syllabic nasal (see Section 3). A CV presyllable may be filled by /ba, cha, ka, la, ma, sa, ta, ya, ?a/. These are also used in Vietnam. The following are peculiar to the Lao dialect: /chi, li, mi, ni, pi, ri, si, ?i/. A few words have a presyllable /?u/. An example of a word is /tarklaaq/ "to shine on."

The most difficult problem in the whole orthography has been how to write the presyllable vowel /a/ in a CV or V syllable. It is not glottalized and is short. At first we used mai jattawa, e.g. [n], but have now decided not to use it any more because it is hard for people who read Lao to know how to read it, and it makes many words look different from Lao. Although it is not glottalized as in Lao, it was decided to use [v] for the presyllable vowel in a CV syllable because this is a short vowel sign in Lao, and because Lao people write some unglottalized words with the presyllable this way although they do not say the presyllable with a glottal. For example negative "market." For a CVC presyllable, mai kan is used for /a/.

Examples of presyllables:

/?a/	?achury	ອະຈູຍ	'small waist basket'
/lar/	?arva:y	ອະຈູຍ ອັຣວາຍ	'soul'
/?am/	?am?barŋ	ອັມຜາງ	'sky'
/lan/	?ansuar	ອັນຊວຣ	'folktale'
/?an/	?anghut	ອັງຮຸດ	'a forge'

/pa/	palus	ປະລຸຊ	'to celebrate'
/par/	pardon	ປັຣໂດງ	'method, way'
/phar/	pharnary	ขัธมาย	'word, speech'
/phan/	phandil	ພັນດິລ	'woman'
/ba/	baben	ບະເບັນຍ	'long fishnet'
/bar/	barbô:k	ບັຣໂບກ	'monkey'
/var/	varvary	ວັຣວາຍ	'carefully'
/i/	idial	ອິດງລ ປີແກຣ	'wife'
/pi/	pikre	ປີແກຣ	'to make proper'
/di/	dida:i	ດິດາຍ	'to wear'
/si/	sisôtt	နို့ နှစ်ဂ	'to harvest'
/tši /	cicat	จีนจัด	'to plant'
/ti/	tiraŋ	ຕິຣາງ ມີຊີ້	'coffin'
/mi/	misi:?	űg -	'a short time'
/ka/	katas	ກະຕັຊ	'to call'
/kar/	karluh	ກັຣລຸຮ	'quickly'
/sar/	sarvət	ຊັຣເວີດ	'to throw'
/tar/	tarnuk	ຕັຣນຸກ	'to mix together'
/sar/	sarli	క్ష క్షవే	'even (size)'
/ca/	cabary	จะบาย	'to strike'
/sa/	salam	ຊະລານ	'long digging stick'
/ya/	yaynn	ยะแย็ม	'to shake about'
/tra/	tratrah	ຕຣະຕຣັຮ	'to fish with net'
/thar/	tharlam	ທັຣລາງ	'between'
/la/	laləw	ລະເລິວ	'young man'
/ra/	ravary	ธะอาย	'soul'
/ta/	tava:k	ຕະວາກ	'alcohol'
/va/	vava:y	ວັຣວາຍ	'carefully'
/?u/	?ukək	ອຸເກິກ ນ້ອນີ	'that'
/mar/	marmo ŋ		'characteristics of life'
/pra/	praprə	ປຣະເປຣີ	'crazy'

6. Vowel phonemes

Katu has 11 basic vowel phonemes, each of which can be short or long. Katu has two vowels which Lao does not have, /n/ and /3/. For /n/ we chose the symbols which another language (Kmhmu) in Lao PDR is using. The /3/ presented a problem. The first proposal was to use a symbol which was already on a Lao typewriter, so /3/ was used. The current proposal is to use /3/ because this symbol is closer to a Lao /3/. This, of course, will need to be tested with readers. The following chart shows the basic vowels with the phonemic symbol and Lao script symbol.

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All the Katu vowels can be short or long. Both short and long vowels may be final or non-final. The short final vowels are glottalized. Long vowels may be further divided into glottalised and non-glottalised. Long glottalised vowels are not found in Lao so it was a problem deciding how to symbolise them. The decision was made to use *mai thoo*, e.g. $|\tilde{n}|$ since the glottal is felt by Khamluan to be like a tone. Another Mon Khmer language, Kui, uses the same sign. Short vowels do not occur in open syllables.

		Lao script symbol				
Roma Sign	an	short and glottal final	short and non-final	long and final	long and non-final	long and glottal final
i	i:	X	xx	x	xx	X
e	eı	(XE	ι××	ιx	ιxx	ι χ
ε	EI	αхь	αxx	шх	αxx	αž
i	i	X	xx	X	xx	X X
Э	ə:	ιχ̈́	ιxx	ιχ̈́	ια̈́χ	ίχ̈́
٨	ΛÏ	αχε	αχ̈́χ	แx๊	αχ̃χ	αX
a	ar	χε	хх	xๆ	xnx	×้า
u	u:	X	××	×	ХХ	×
0	O!	โxะ	х̂х	ĩχ	txx	ìx
ĵ	ĵ:	เxาะ	хэх	×	хөх	X
პ პ:		xė́ε	хэ́х	xå	хв́х	žė
Diph	thongs	Final with glottal	final	non-final		
ia		เรียะ	เรีย	xjx		
ia		ເχືອະ	ເχືອ	ເχືອx		
ua	N	ິ ດວະ IKS 26:233-244 (c)	Xo 996 See archives	XOX sealang net/mks/cou	ov ight.htm for terms	s of use

Examples of vowel phonemes:

/i/	piŋ	วิโค	'grave
/i?/	pi?	D D C S C D D C S C D D C S C D D C S C D D C S C D D C S C D D C S C D D C S C D D C S C D D C S C D D C S C D D C S C D D C S C D D D C S C D D D D D D D D D D	'to squeeze
/iz/	ri:l	ຣີລ	'to peel
/i:1/	pi:?	ที่	'yellow fruit
/i:/	pi	ที	'to speak
/e/	cet	ເຈັດ	'to die
/e?/	ne?	ເກຣ	'that
/eː/	tem	ເຕງ	'to do, work'
/e://	pe:?	เป็	'banana'
/e:/	?ire	ອິເຣ	'to rub'
/ε/	peih	แกล	'they'
/E]/	le?	ແລະ	'to, towards'
/e:/		ແຮງ	'edge, border'
/e:]/	rein ambei?	ອຳແບ້	'goat'
/E//	dih	ก็ธ	'quickly'
/¥?/	kathi?	ກະທິ	'occurrence'
/i:/		31001 31001	'to hoe dry field'
/i:/ /i://	pi:k ti:?	ປຼືກ ຕື	'old'
	di		'east'
/ 1 :/		() (05	
/ə/	ŋəh	rjo G	'edge, opening'
/ə?/	yə?		'not'
/ə: /	VƏIC	ດ ເກີນ ເກີນ ເກີນ ເກີນ ເກີນ ເກີນ ເກີນ ເກີນ	'to go'
/əː//	prə:?	ເດຊ	'pepper'
/əː/	dər		'imperative'
/^/	lai	ແລ໊ຍ	'to see'
/^?/	CA?	แจ๊ะ	'to prevent'
/AI /	?dam	ແຖີງ ແຕີ "	'to bring'
/\?/	ta:?		'from'
/A:/	akn:	ອະແກີ	'then'
/a/	?dah	์ กุ้ธ	'to eat meat'
/a?/	ta?	ຕະ	'to endure'
/a:/	kalan	ກະລາງ	'to worry'
/a:1/	taka:?	ตะท้า	'to walk, behave'
/a:/	car	99	'to eat'
/u/	yuŋ	ຢຸງ ລຸ	'foot'
/u?/	lu?	ລຸ	'to pull'
/u:/	katu	ກະຕູ	'Katu'
/u:/	kruŋ	ກຣູງ ລູ້ ຈິຮ	'vegetable stew'
/u:?/	lu:?	ลิ	'puddle'
/o/	coh		'to plant'
/o?/	lo?	ໂລະ	'good, beautiful'
/o/	mamoŋ	ກະກົງ	'to be alive'

long and glottal final

/o?/	a?o:y?	ອະໂອ້ຍ	'chicken'
/oː/	cor	रिव	'to return'
/3/	dôŋ	ດັອງ	'to give'
/5?/	kanô?	ກະເນາະ	'to think'
/5:1/	mamɔ̂?	กรทู	'sister of brother'
/3:/	cô:m	ลอ ม	'to be able'
/3:/	băı	ບອໍ	'rain'
/3/	?yŏk	ັງອໍກ	'to climb'
/3?/	?d3?	ั กอ๋ะ	'comparative'
/ŏɪy/	tamžiy	นะทอุถ	'to visit, visitor'
/31/	path š :	ປະທອໍ	'to send message'
/3:1/	lðiq	ລ້ອໍ	'to peel, husk'
/ia/	diar	្តត្បូន	'to go around'
/ia/	Bia	ເບຍ	'name of mythological person'
/ia/	sia	ເຊື້ອ ເລື່ອງ	'leftover'
/ia/	liaŋ	ເລື່ອງ	'to turn, untwist'
/ia?/	cia?	ເຈື້ອະ	'pineapple'
/ua?/	arua?	ອະຣີວະ	'painful'
/ua/	pathua	ປະທິວ	'to give in'
/ua/	athuaŋ	ອະທວງ	'bean'

7. Irregular signs

short and non-final

The Katu phonemes have a parallel pattern in which word initial preglottalized /ly/ is complemented by post-glottalised /y?/. Word final /y/ and post-glottalised /y?/ can occur in Katu with both short and long vowels, as the following chart shows. The diphthongs /ia/ and /ua/ can also be followed word finally by /y/ and by /y?/. Most vowels followed by /y/ follow the normal convention for vowel plus consonant, except for /ay/ and /oy/.

short and glottal final

Short a	na non-mai	SHOIT	and giottai imai	long	and giottai imai
		iy?	X61	i:y?	X.E.
		әу?	เหต	ə:y?	เรีย
		лу?	แนก	Aiy?	แร๊ย
ay	λx	ay?	ìx	a:y?	ม้ าย
		uy?	่งัย	u:y?	ร ัย
oy	โxัย	oy?	เรีย	ory?	โร้ย
		э̂у?	xอย	э̂:у?	x้อย
		ðу?	x້ອໍຍ	ð:y?	x้อํย

Examples:

/iy?/	katiy?	ກະຕຼື້ຍ	'small'
/i:y?/	masiry?	ารธู้อ	'a short time'
/əy?/	ka?əy?	ກະເອີ້ຍ	'to burp'
/ə:y?/	kayə:y?	บรเยี้ย	'honey'
/ Ay /	lny	แฐ๊ย	'to see'
/\text{\range}/	ña:y?	์สฏิถ	'to be humble, unafraid'
/ay/	pay	ไป	'to take'
/ay?/	malay?	ມະໄລ້	'wood for crossbow'
/ary?/	tata:y?	ຕະຕ້າຍ	'anus'
/uy?/	payuy?	กุรคู้ถ	'orange bellied flower pecker'
/oy/	maloy	บะเอ๊ย	'to strive for power'
/oy?/	tangtoy?	ຕັງໂຕັ້ຍ	'dragonfly'
/ory?/	hamory?	ระไ บ้ย	'instead'
/ɔ^:y?/	klô:y?	ກູ ້ ອໍຍ	'to tie up'
/ɔˇyʔ/	ŋŏy?	ັງອໍຍ	'buffalo'
/ɔˇ:y?/	kadžiy?	ກະດ້ອໍຍ	'squash plant'

The diphthongs /ia/, /ua/ also occur with word final /y/ and post-glottalized /y?//am/ follows the Lao symbol /x³n /.

DIPHTHONGS

non-glottal glottal

iay	เรื่อถ	iəy?	เชอถ
uay	xอย	uay?	x ้อย

/iay/	ph i ay	ເຫຼືອຍົ	'thatch'
/iay?/	ja?iay?	ໆະເອື້ອຍ	'to burp'
/uay/	haruay	ระธวย	'to leak'
/uay?/	mbuay?	ມບ້ວຍ	'to cut up (animal)'

The Katu phonemes fit a parallel pattern in which word initial /b/ and preglottalized /lb/ are complemented by word final /w/ and post-glottalised /wl/. /i/, /a/ and /n/ follow the normal pattern for vowel plus consonant. /aw/ and /ow/ do not follow the normal pattern.

Word final /w/ and post-glottalised /w?/ occur in Katu with the following vowel combinations:

short & non-final		1	short and glottal final		long and glottal final	
		AW?	แx้อ	AIW?	แห้อ	
aw	ixn	aw?	เร็า	a:w?	ร ้าอ	
ow	້າ ເຂົ້າ	ow?	îxo	·		

Examples:

/\w?/	jar∧w?	ໆະເຣົ້າ	'to bury alive'
/\siw?/	kaiw?	ະ ແກ້ວ	'to pull'
/aw/	daraw	ດະເຣົາ	'thing'
/aw?/	saw?	ເຂົາ	'to tie'
/arw?/	pada:w?	ปะถ้าอ	'to use people'
/ow/	ha?ow	ຮະໂອີວ	'to put up high'
/ow?/	?dow?	โη้อ	'deep'

The dipthongs /ia/, /ia/ and /ua/ can also occur with word final /w/ and with post-glottalized /w?/. /am/ follows the Lao sign /x³/.

DIPHTHONGS

non-glottal		glottal	
iaw	хJэ	iaw?	×ັງວ
iaw	ເχື່ອວ	iaw?	(X80
uaw	хээ	uaw?	xoo

Examples:

iaw	haŋiaw	ຮະງງວ	'headcloth (men)'
iaw?	diaw?	ດງວ	'glutinous (rice)'
iaw	janiaw	ໆະເມືອວ	'medicine'
uaw	luaw	ລວວ	'right speed'

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