# Bugan—a new Mon-Khmer language of Yunnan Province, China

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The Bugan number nearly 3000 and are found in the mountainous areas of southern Guangnan 广南 and northern Xichou 西畴 Counties in the southeastern part of Yunnan Province. The Bugan live in the following seven villages: 老挖龙 Laowalong [pə<sup>55</sup>luŋ<sup>13</sup>],新挖龙 Xinwalong [pə<sup>55</sup>tsuŋ<sup>13</sup>], 九平 Jiuping [pə<sup>55</sup>tsiaŋ<sup>31</sup>], 石北坡 Shibeipo [pə<sup>55</sup>çe<sup>13</sup>], 新寨 Xinzhai [li³¹laŋ¹³], 马龙 Malong [pə<sup>55</sup>yu<sup>31</sup>] and 那拉 Nala. The Bugan and the Han Chinese live together in Jiuping, Xinzhai, and Nala; the other four villages are exclusively inhabited by Bugan. The Bugan call themselves [pə<sup>55</sup>kan<sup>33</sup>] in their own language, the surrounding Han call them Hualo or 花族 Huazu 'colorful people', because the Bugan women wear colorful traditional dresses made from sewing together triangular swathes of printed cloth. The Bugan do not consider themselves to be natives of Guangnan and Xichou but came here before the Han, the Miao/Hmong, and the Yao. Some Bugan people say their ancestors originated from Jiangxi, Sichuan, and Guizhou Provinces and have lived in Guangnan and Xichou for ten or more generations. The Bugan celebrate their own New Year's festival in April of the Chinese Lunar Calendar. During the festival days they sing native or Han songs, and dance together to music of the [po<sup>31</sup>], a kind of Bugan instrument made of bamboo and calabashes. Nowadays, only a few old people are able to sing their native songs. The Bugan male clothing is the same as the Han's, females are accustomed to wearing long black skirts, colorful dresses, and headwraps. The Bugan used to marry only within their own ethnic group, but in recent times a few Bugan girls have married young Han men. The most common family names are nine in number and are: 李 Li, 王 Wang, 郭 Guo, 罗Lou, 严 Yan, 卢 Lu, 普 Pu and Yi. All Bugan people speak their mother tongue and adults also can speak Chinese. There is no variation in the Bugan language. This paper is based on my 1994 investigation.

# 1. The Sound system

There is a double series of initials in the sound system, prenasalized and plain for stops and affricates. Most vowels possess a tense  $(\underline{v})$  and lax (v) contrast.

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Final consonants, stops and tones are prone to change. A part of the vocabulary can be pronounced with either final nasal or stop (same place of articulation), some words (but not in context) can be pronounced in two different tones. Sandhi changes are usual, especially tone changes; there are also some blends caused by fusion of syllables.  $sau^{33}$  'bird',  $bi^{31}$  'two',  $bi^{33}$  'classifier'  $\sim sau^{33}b\underline{i}\underline{2}^{13}$  'two birds',  $wi^{31}$  'we',  $bi^{31}$  'two',  $pau^{31}$  'classifier'  $\sim wi^{31}b\underline{i}\underline{2}^{31}$  'we two',  $l\epsilon^{31}$  'auxiliary, belong to',  $o^{31}$  'I'  $\sim lio^{55}$  'mine, belong to me'.

Compared with the surrounding languages (Han, Zhuang, Yi/Lolo, Miao/Hmong, or Yao), Bugan syllables are rather subject to change.

#### 1.1 Initials

p	ph	b	mb		4M		f		W	
t	th	d	md	nd	n	n.		1		
θ	S		Ç		<b>%</b>					
k	kh h	g ?	ŋg		ŋ		x	q	ŋq	Y
ts	tsh		mts	mtsh	mdz	ndz				

Figure 1. Initials

The Bugan language has 36 initials, /?/ appears only before vocalic onset. [voice] and [aspiration] are contrastive features in some stops and in some double initials of the type 'nasal + affricate': /p b ph, k g kh, t d th, mts mtsh mdz/. There are five prenasalized stops, /mb ŋg ŋq md nd/. Durations of these initials are longer than those of corresponding non-nasalized stops /b g q d/ but their nasal resonance is not especially strong, sometimes it is only slightly perceptible. The same is true of the affricates /mts mtsh mdz/. With the tone 31, nasal /m/ of /mts mtsh mdz/ is pronounced as stop /p-/—mtse<sup>31</sup> ~ ptse<sup>31</sup> 'three', mtsha<sup>31</sup> ~ ptsha<sup>31</sup> 'to rub with the hands, make a cord'. Before the rhyme /-i-/, initial /ts-/ is palatalized to [tç-]— tshiou<sup>31</sup> ~ tchiou<sup>31</sup> 'to sneeze',  $tsiu^{35}$ ~  $teiu^{35}$  'to have money on sb.' The prenasalized initial /ŋg/ sometimes is pronounced as a pure nasal [ŋ]— $\eta ga^{31} \sim \eta a^{31}$  'yellow'. Words with /g-, ŋq-, md-, mdz-/ are few in number; in my record, there is only one word for each of /g- ŋq-/, i.e.,  $gam^{35}$  'to stab',  $\eta qu^{33}$  'village'.

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/p/ pi<sup>35</sup> 'sun'; piau<sup>35</sup> 'human being'
/ph/ pho<sup>35</sup> '(maternal) grandfather'; phe<sup>35</sup> '(maternal) grandmother'
/b/ biou<sup>33</sup> 'mountain'; bou<sup>31</sup> 'dust'
/mb/ mbuŋ<sup>55</sup> 'to eat one's fill'; mban<sup>55</sup> 'to lash'
/m/ me<sup>13</sup> 'mother'; mau<sup>33</sup> 'younger brother'
/f/ fei<sup>33</sup> 'cooked corn or other cereals'; fi<sup>31</sup> ' to meet sb.'

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pə<sup>0</sup>wat<sup>31</sup> 'round': wa <sup>35</sup> 'to drink'
/w/
            tau<sup>13</sup> 'to look for'; taŋ<sup>31</sup> 'to point to sb.'
/t/
            tho<sup>31</sup> 'large, big'; thu<sup>31</sup> 'to fly'
/th/
/d/
            di<sup>31</sup> 'bad'; dou<sup>35</sup> 'to pull out'
            mda<sup>33</sup> 'be light (of a lamp)'; mda<sup>33</sup> 'be light (of the sky)'
/md/
            nda<sup>33</sup> 'be bold and powerful'; nda<sup>33</sup> 'be light (weight)'
/nd/
            na<sup>33</sup> 'younger sister'; nau<sup>31</sup> 'much, many'
/n/
            na<sup>31</sup> 'mosquito'; no<sup>13</sup> 'to erect'
/n/
            la<sup>33</sup> 'red'; lan<sup>33</sup> 'clear (liquid)'
N
            \theta i^{35} m\tilde{a}^{31} 'dew'; \theta i^{35} 'alkali water, made from plant ash'
/θ/
            sa<sup>33</sup> 'hard (material)'; san<sup>35</sup>/sak<sup>55</sup> 'hair'
/s/
            çaŋ<sup>31</sup> 'green'; çɛ<sup>33</sup> 'stomach'
/¢/
            zun<sup>31</sup> 'old'; zo<sup>33</sup> 'long'
/2/
            kou<sup>31</sup> 'to finish'; ka<sup>31</sup> 'to beat with fist or a hammer, etc.'
/k/
            kho<sup>35</sup> 'to fill a bowl with rice, etc.'; khou<sup>35</sup> 'carry on one's head'
/kh/
            gam<sup>35</sup> 'to stab'
/g/
            nga<sup>31</sup> 'yellow'; ngai<sup>31</sup> 'askew'
/ŋg/
            η<sub>a</sub><sup>13</sup> 'dark'; η<sub>a</sub><sup>55</sup> 'water buffalo'
/ŋ/
            xo<sup>31</sup> 'horn'; xou<sup>55</sup> 'monkey'
/x/
            gau<sup>31</sup> 'to nod'; gou<sup>33</sup> 'to burn up'
/q/
            nqu<sup>33</sup> 'village'
/ŋq/
            yon<sup>31</sup> 'busy'; you<sup>31</sup> 'to read'
/y/
            ho<sup>31</sup> 'slow'; ha<sup>31</sup> 'to dry in the sun'
/h/
/?/
            ?am<sup>31</sup> 'warm'; ?a<sup>33</sup> 'to rain'
            pə<sup>55</sup>tse<sup>35</sup> 'ear'; pə<sup>55</sup>tsə<sup>13</sup> 'placenta'
/ts/
            na<sup>33</sup>tshun<sup>31</sup> 'uvula'; tshə<sup>31</sup> 'urine'
/tsh/
           mtse<sup>33</sup> 'fruit'; mtsa<sup>35</sup> 'one meal, classifier'
/mts/
/mtsh/ mtsha<sup>13</sup> 'to kill'; mtshu<sup>31</sup> 'to lure'
           mdze<sup>31</sup> 'to plait (one's hair)'; mdzaŋ<sup>35</sup> 'insipid, lack salt'
/mdz/
            ndzun<sup>33</sup> 'thin (human being)'; ndza<sup>55</sup> 'beautiful'
/ndz/
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## 1.2 Rhymes

a	<u>a</u>	ai	<u>ai</u>	au	<u>au</u>	aw	aw	ia	<u>ia</u>		<u>iaw</u>
	ua	am	<u>a</u> m	an	an						
ε	<u>3</u>	εί	<u>εi</u>							İ	
	ue	εm	<u>e</u> m	εn	<u>e</u> n						
е	<u>e</u>							ie	<u>ie</u>		
i	<u>i</u>			en	en						
	<b>-</b>			in							
3	<u>S</u>							io			
0	Q			ou	ε. Oπ			io	<u>jo</u>		
u	ū	ui	<u>ui</u>					iu	<u>iu</u>	iou	<u>iou</u>
Э				ən				iə			
ш		щ						_			
у											
aŋ		aŋ	ã	$\frac{\tilde{\mathbf{a}}}{2}$	ap	at	<u>a</u> t	ak	<u>a</u> k	<u>ia</u> m	iaŋ
<u>ia</u> ŋ		iã	iap	iak	uan	uaŋ	uã	·			
		iε̃									
						et					
		<u>ə</u> ŋ	õ			,			οk		
oŋ		oŋ			op					ioŋ	
<u>io</u> ŋ											
uŋ		uŋ			ũ			uk			
				õ							

The Bugan language has 90 rhymes. The tense vowels and lax vowels are contrastive:  $kui^{33}$  'fire smoke'  $\sim k\underline{u}i^{33}$  'to dry by smoke',  $lu\eta^{33}$  'well'  $\sim l\underline{u}\eta^{33}$  'abyss, deep cave'. Compared to the lax vowels, the tense vowel tongue position is lower and further back, the lax /a/ in  $ta^{31}$  'near' is [a], but the tense /a/ in  $ta^{31}$  'to bet' is close to [a]. With the rising tonal syllables, the tense vowels are easy to hear; the laryngeal setting is very tense; but in the words with the falling tone (31) the laryngeal setting is weak.

There are three final stops, /-p,-t,-k/; they are not released. Words with final stops are limited; these words appear only with tones 55, 33, 31 (only two with tone 33 in my record). Some words can be pronounced either with final nasal or stop (same place of articulation) or the coda can be lost altogether:  $nam^{55} \sim nap^{55}$  'to close one's mouth';  $cet^{55} \sim cen^{55}$  'goat';  $biak^{55} \sim bian^{55}$  'grape'; pable boards 'to come';  $biak^{55} \sim bian^{55}$  'grape';  $biak^{55} \sim bia$ 

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with nasalized vowels lose their nasalization and become oral syllables or they lose the final and preserve the nasal as a nasalized vowel— $s\tilde{a}^{33} \sim sa^{33}$  'eight',  $la\eta^{31} \sim l\tilde{a}^{31}$  'horse'. The rhymes /iã iap uã em  $\tilde{b}$  appear only in Han and Zhuang borrowing. There is only one word with rhymes /iau iam iã iap iak em em ok on  $\tilde{b}$  for each of them. Most of those words are with final nasal or stop, and some are borrowings. Moreover, /uak/ appears only with one suffixed syllable:  $ho^{31}$  'slow';  $\eta uak^{31}$  'very slow'.

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ta<sup>31</sup> 'near'; sa<sup>33</sup> 'hard (material)'
/a/
            la55 'thin (material)'; ta33 'shrivelled, flat'
/<u>a</u>/
            pə<sup>55</sup>mai<sup>35</sup> 'pupil (of the eye)'; pə<sup>55</sup>lai<sup>33</sup> 'tongue'
/ai/
            ai<sup>33</sup>qou<sup>31</sup>(<sup>55</sup>) 'cloud'; nai<sup>31</sup> 'flat, level'
/<u>ai</u>/
            nau<sup>31</sup> 'much, many'; tsau<sup>33</sup> 'stingy, narrow-minded'
/au/
            lau<sup>31</sup> 'empty'; nau<sup>55</sup> 'soft, pliable'
/<u>au</u>/
            ngaw<sup>35</sup> 'slippery (road)'; saw<sup>31</sup> 'tree'
/auı/
            tsaui<sup>31</sup> 'early'; saui<sup>31</sup> 'garlic'
/auu/
            mia<sup>31</sup> 'salt'; pia<sup>55</sup> 'cymbals'
/ia/
            lia<sup>31</sup> 'keep out (the wind)'; tsia<sup>55</sup> 'to heat up'
<u>/ia/</u>
            biaw<sup>31</sup> 'lunch, midday meal'
<u>/iaul/</u>
            kua<sup>55</sup> 'son'; mə<sup>0</sup>kua<sup>31</sup> 'folk song'
/ua/
            kham<sup>35</sup> '(to work )hard'; tam<sup>33</sup> 'to sink'
/am/
            am31 'warm'; gam35 'to stab'
/am/
            lan<sup>13(31)</sup>tə<sup>0</sup>tan<sup>13</sup> 'stark-naked'; han<sup>33</sup> 'move (house)'
/an/
            lan31 'naked'; lan33 'blunt'
/<u>a</u>n/
            te<sup>0</sup>tha,<sup>55</sup> 'horizontal, across'; lan^{31} \sim l\tilde{a}^{31} 'horse'
/aŋ/
            lan<sup>33</sup> 'clear (liquid)'; lan<sup>31</sup> 'wooden basin'
/<u>a</u>ŋ/
            tshã<sup>31</sup> 'greedy, fond of good food'; lã<sup>55</sup> / laŋ<sup>55</sup> 'blind'
/ã/
            b\tilde{a}^{55} 'sticky'; s\tilde{a}^{55}/sa\eta^{55} 'disorder'
[ã/
            te<sup>55</sup>map<sup>31</sup> 'knot'; nap<sup>55</sup> 'tense, tight'
/ap/
            pə<sup>0</sup>wat<sup>31</sup> 'round'; nat<sup>55</sup>/nan<sup>55</sup>tə<sup>55</sup> 'to bear, to endure'
/at
            lat<sup>31</sup> 'slippery (road)'; vat<sup>33</sup>/van<sup>13</sup> 'to turn'
<u>/at/</u>
            pə<sup>0</sup>lak<sup>55</sup> 'flat'; ndzak<sup>31</sup> 'frozen, stiff'
/ak/
            wak<sup>31</sup>/wa<sup>31</sup> 'iron pot'; mak<sup>33</sup>/maη<sup>55</sup> 'muddy (water)'
/<u>a</u>k/
            tsiam<sup>55</sup> 'soul'
/iam/
            bian<sup>31</sup> 'light (color)'; thian<sup>13</sup> 'thousand'
/iaŋ/
            bian<sup>35</sup> 'claw'; phian<sup>35</sup> 'to support with the hand'
/ian/
            miã<sup>31</sup> 'life'
/iã/
           pw<sup>55</sup> tsiap<sup>31</sup> 'Chinese chives'
/iap/
           biak<sup>55</sup>/bian<sup>55</sup> 'grape'
/iak/
            tshuan<sup>31</sup> 'boat'; khuan<sup>33</sup> 'solidify'
/uan/
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ημαη<sup>31</sup> 'stupid'; ηguaη<sup>13</sup>ςε<sup>13</sup> 'intestines'
/uaŋ/
           luã<sup>13</sup> 'disorder'; tshuã<sup>31</sup> 'to send'
/uã/
            nde35 'beat'; mtse31 'sour'
/8/
            xe^{31} 'taste good'; se^{31} 'smart'
/3/
            nei31 'smooth'; thei35 'false, be not true'
/ei/
           lei 35/13 'the sting of a bee or wasp'; khei 55 'to run'
/<u>ei</u>/
            nguε<sup>31</sup> 'crooked, bend'; khuε<sup>31</sup> 'piece, lump'
/ue/
           lem<sup>35</sup> ' to lose (a game, etc.)'
/em/
           lgm31 'reed trumpet, a Chinese woodwind instrument'
/em/
           ken<sup>33</sup> 'firm, secure'; then<sup>35</sup> 'to lay out'
/en/
            ten55 'short (human being)'; yen35 'cut'
/en/
           liẽ<sup>31</sup>to<sup>13</sup> 'sickle'; ziẽ<sup>33</sup> 'rich (colors)'
/iẽ/
            te<sup>55</sup>ta<sup>31</sup> 'true'; mtse<sup>31</sup> 'three'
/e/
            be<sup>55</sup> 'short (material)'; te<sup>31</sup> 'accurate (shooting)'
/<u>e</u>/
            phie<sup>31</sup> 'to force, compel'; tie<sup>55</sup> 'hand'
/ie/
           mie<sup>55</sup> 'small'; pie<sup>13</sup> 'to change'
<u>/ie/</u>
           nen<sup>33</sup> 'cloth'; yen<sup>33/55</sup> 'be like, to take after '
/en/
            tsen<sup>35</sup> 'to rub, to scratch an itch'; nen<sup>33</sup> 'broken'
/en/
            zet<sup>31</sup> 'to fall down'; net<sup>31</sup> ' to swing'
/et/
            xi<sup>33</sup> 'far' di<sup>31</sup> 'bad'
/i/
            tsi<sup>35</sup> cold'; ki<sup>35</sup> 'to wipe, to rub'
/<u>i</u>/
           min<sup>31</sup> 'understand'; pin<sup>35</sup> 'shoulder'
/in/
            tho<sup>31</sup> 'large, big'; no<sup>33</sup> 'peppery, hot'
/5/
            to 15 'hold or carry in both hands'; lo 11 'little, few'
/2/
            dio<sup>31</sup> 'loose, inattentive'; bio<sup>31</sup> 'two'
/io/
            tson35 'to hoe up (weeds)'; kon31 'steep'
/<u>o</u>ŋ/
           luã<sup>13</sup> hõ<sup>55</sup> hõ<sup>55</sup> 'in noisy disorder'; mõ<sup>55</sup>nu<sup>55</sup> 'roof'
/õ/
/2k/
           kok<sup>31</sup>/koη<sup>31</sup> 'bend upwards'
           zo<sup>33</sup> 'long'; yo<sup>33</sup> 'high'
/o/
           to climb'; mo<sup>31</sup> 'heavy'
/<u>o</u>/
           kou<sup>31</sup> 'deep'; nou<sup>55</sup> 'wrinkle, crease'
/ou/
           thou35 'to prop up'; tsou31 ' to eat '
/<u>ou</u>/
           ta<sup>31</sup>bio<sup>33</sup> 'to close, near'; pio<sup>55</sup> 'to collapse'
/io/
           pio<sup>31</sup> 'to set upright'; pw<sup>55</sup>lio<sup>31</sup> 'coat'
<u>/io/</u>
           yon<sup>31</sup> 'busy'; pon<sup>55</sup> 'blister'
/oŋ/
           pon<sup>31</sup> 'concave, hollow'; khon<sup>55</sup> 'protruding'
/on/
           bop<sup>55</sup>mtse<sup>33</sup> 'hail'; te<sup>55</sup>bop<sup>31</sup> 'carp'
/op/
           pion<sup>35</sup> 'to write down'; pion<sup>31</sup> 'to make a sound'
/ion/
           pion<sup>33</sup> 'colorful'; pion<sup>31</sup>tie<sup>55</sup> 'finger ring'
/ion/
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tshu<sup>55</sup> 'dry'; khu<sup>55</sup> 'expensive'
/u/
           lu<sup>55</sup> 'small, young'; zu<sup>55</sup> 'wrong'
/<u>u</u>/
           nui<sup>55</sup> 'rainbow'; kui<sup>33</sup> 'fire smoke'
/ui/
           pə<sup>0</sup>kui<sup>55</sup> 'craftsman'; kui<sup>33</sup> 'to dry by smoke'
/ui/
            çiu<sup>31</sup> 'poor, poverty-stricken'; mu<sup>33</sup>çiu<sup>55</sup> 'China fir'
/iu/
           piu<sup>31</sup> 'bear'; niu<sup>33</sup> 'sweet potato'
/iu/
           biou<sup>33</sup> 'mountain'; tsiou<sup>35</sup> 'to mend (clothes)'
/iou/
            si<sup>55</sup>miou<sup>31</sup> 'future'; tsiou<sup>13</sup> 'to mend (shoes)'
/iou/
           ndzu,33 'thin (human being)'; zun31 'old'
/uŋ/
           tsun<sup>33</sup> 'like, be fond of'; lun<sup>31</sup> 'to close'
/un/
           tũ<sup>55</sup> 'mouth'; nũ<sup>55</sup> 'brain'
/<u>ũ</u>/
           te<sup>55</sup>kuk<sup>31</sup> 'frost'; pə<sup>55</sup>nuk<sup>31</sup> 'heart'
/uk/
           də<sup>33</sup> 'long(time)'; zə<sup>31</sup> 'see, catch sight of'
/ə/
           bia<sup>13</sup> 'two (animals)'; bia<sup>33</sup> 'classifier (for animal)'
/iə/
           mən<sup>33</sup> 'thick'
/ən/
           lə55çi31 'grain'
/ə̃/
           lui<sup>31</sup> 'good'; khui<sup>35</sup> 'pool, pond'
/w/
           tsw<sup>55</sup> 'shallow (water)'; tsau<sup>33</sup>lw<sup>55</sup> 'fermented glutinous rice'
/w/
           khy<sup>55</sup> 'narrow'; khy<sup>31</sup> 'the period of the day (from 7 p.m.
/y/
           to 9 p.m.)'
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## 1.3 Tones

There are six live tones: two level (55, 33), two rising (35, 13), one falling (31) and the slight tone (atonality) 'ø'. The slight tone 'ø' appears only in some prefixes. The dead tones have pitch shapes 55, 33, 31. Dead tones occur with either lax or tense vowel syllables. Tones are instable in Bugan, a part of the lexicon can be pronounced with either of two tones,  $z_0u^{33/55}$  'earth',  $d_0^{13/33}$  'to burn the grass on waste land, for cultivation',  $tsa^{13/33}$  'to bite',  $xau^{55/31}$  'valley',  $mtshi^{55/13}$  'to milk',  $lsi^{13/35}$  'the sting of a bee or wasp',  $tsi^{33/35}$  'to stretch out (one's hand)', etc. Tonal change is common in context, and many cases show progressive assimilation,  $me^{55}xe^{553(31)}$  'taste bad',  $me^{55}nam^{55(35)}$  'one year',  $bi^{31}nam^{31(35)}$  'two years',  $nam^{33(35)}ni^{33}$  'this year',  $yo^{13}ten^{33(35)}$  'very crowded',  $pe^{0}lon^{35(33)}$  'the upper'. (Tone values in parentheses are unchanged citation values).

#### Live tones:

Tone:	Shape:	Examples:
55	high level	la <sup>55</sup> 'thin (material)'; tə <sup>0</sup> thaŋ <sup>55</sup> 'horizontal, across'
33	mid level	la <sup>33</sup> 'to turn round'; naŋ <sup>33</sup> 'to sleep'
35	high rising	la <sup>35</sup> 'to return, give back'; taŋ <sup>35</sup> 'to close (a door)'
13	low rising	ta <sup>13</sup> 'to carry on the back'; taŋ <sup>13</sup> 'to keep domestic animals'
31	low falling	ta <sup>31</sup> 'to bet'; taŋ <sup>31</sup> 'to cook, to boil (fold, stable, etc.)'
<i>3</i> 1	low raining	
0	slight	$pe^{0}ci^{55}$ 'left side'; $te^{0}c^{55}$ 'the inner'

#### Dead tones:

Tone	Shape	Examples
55	high level	biak <sup>55</sup> /biaŋ <sup>55</sup> 'grape'; tset55/tsen <sup>55</sup> 'to hog'
33	mid level	mak <sup>33</sup> /maŋ <sup>55</sup> 'muddy (water)'; wat <sup>33</sup> /wan <sup>13</sup> 'to turn'
31	low falling	zet <sup>31</sup> 'to fall down'; kok <sup>31</sup> /kon <sup>31</sup> 'bend upwards'

# 1.4 Syllable types

Syllables appear in 12 types (see below). Most syllables are type 4, 5, 7, 8, 9, 10, or 11; the rest are relatively rare. Type 12 has only one word in my record. All vowel onset syllables have glottal (hard) onset [?]; I do not analyze them here. Vowels in the same syllable must all be tense or lax simultaneously, tense vowels and lax vowels do not occur together in same syllable.

1	VT	a <sup>33</sup> 'came back'	2 <sup>33</sup> 'raw, uncooked'
2	VVT	ai <sup>33</sup> 'excrement'	au55 'husband of one's aunt'
3	VCT	am <sup>31</sup> 'warm'	an <sup>31</sup> 'to wash'
4	CVT	ta <sup>31</sup> 'be close'	sa <sup>33</sup> 'hard (material)'
5	CVVT	n <u>ai<sup>31</sup> 'flat, level'</u>	sam <sup>31</sup> 'tree'
6	CVVVT	biou <sup>55</sup> 'leech'	biou <sup>33</sup> 'mountain'
7	CCVT	nde35 'to beat'	mtse <sup>31</sup> 'three'
8	CCVVT	ngaw <sup>35</sup> 'slippery (road)'	mtshai <sup>55</sup> 'mad'
9	CVCT	nan <sup>33</sup> 'to sleep'	zet <sup>31</sup> 'to fall down'
10	CVVCT	bian <sup>35</sup> 'claw'	khuan <sup>33</sup> 'solidify'
11	CCVCT	ndzuŋ <sup>33</sup> 'thin (human)'	mdzaŋ <sup>35</sup> 'insipid'
12	CCVVCT	nguan <sup>13</sup> ce <sup>13</sup> 'intestines'	

#### 2. Lexicon

#### 2.1 Word structure

# 2.1.1 Simple words

There are two types: monosyllabic and disyllabic. Most Bugan words are monosyllabic:  $pi^{35}$  'sun',  $ta^{55}$  'moon',  $to^{55}$  'grandfather',  $zu^{33}$  'grandmother',  $bu\eta^{31}$  'skin',  $nau^{55}$  'shoe',  $li^{35}$  'to change',  $tsi^{31}$  'to comb'. But there are also disyllabic forms:  $bo^{55}mo^{33}$  'star',  $\eta go^{13}nau^{55(31)}$  'thing',  $fu^{55}da^{13}$  'money',  $tsi^{31}lo^{35}$  'rabbit',  $ta^{35}ti^{55}$  'to give',  $nou^{13}tsau^{31}$  'to frighten (sb.)',  $e^{55}e^{55}$ 'sand'.

# 2.1.2 Complex words

2.1.2.1. Compound words. A compound is formed in any of several ways: in parallel, verb-object, head-modifier, subject-predicate, or verbcomplement.

## Parallel type:

 $tu^{33}$ - $zau^{55}(^{31})$  'go out'

mau<sup>33</sup>-na<sup>33</sup> 'sibling'

out-go

younger brother-younger sister

Verb-object type:

tso<sup>31</sup>-co<sup>35</sup> 'go hunting'

bi<sup>33</sup>(<sup>35</sup>)-man<sup>55</sup> 'marry (a woman)'

hunt-game

buy-wife

Head-modifier type: most modifiers follow the head, a few modifiers precede the head.

biou<sup>33</sup>-yo<sup>33</sup> 'rock hill, karst formation' zuŋ<sup>55</sup>(<sup>31</sup>)-tse<sup>31</sup> 'foot of mountain' hill-rock

foot mountain

da<sup>13(35)</sup>-nai<sup>55</sup> 'wave'

da<sup>35</sup>-taui<sup>35</sup> 'rice field'

water-jump

water-field

Subject-predicate type:

 $me^{55(33)}$  lã<sup>55</sup> 'the blind'

pə0qou55-luŋ33 'thunder'

eye-blind

sky-make a sound

Verb-complement type:

 $\mu u^{33}$ -so<sup>31</sup> 'easy' do-easy

kai<sup>33</sup>-so<sup>31</sup> 'comfortable'

stay-good

2.1.2.2. Derived words. There are two main types of derivation: prefix + head, head + suffix. All prefixes are pronounced with tone, but a few of them are pronounced with the slight tone.

# Prefix + head type:

- $p = 5^{5}$  prefix in words for body parts, kinship, nations, people, made objects, or nouns of locality:  $\sim bop^{31}/bou^{31}$  'head',  $\sim san^{33}$  'navel',  $\sim du^{33}$  'brother',  $\sim de^{31}$  'relatives by marriage',  $\sim mio^{31}$  'the Miao/Hmong',  $\sim khui^{55}$  'the Han',  $\sim kha^{13}$  'guest',  $\sim zun^{55(31)}$  'old people',  $\sim si^{55}$  'broom',  $\sim pon^{55}$  'hammer',  $\sim ci^{55}$  'left side',  $\sim ca^{55}$  'right side'.
- $t \Rightarrow^{55/0}$  prefix in words for body parts, localities, or animals:  $\sim nou^{55}$  'the back of the body',  $\sim qou^{35}$  'the palm of the hand',  $\sim kau^{35}$  'middle',  $\sim vo^{55}$  'inner',  $\sim kau^{33}$  'tiger',  $\sim kau^{33}$  'squirrel'.
- $te^{55}$  prefix in words for plants, birds, rivers, fauna, made objects, or weather:  $\sim tan^{55}$  'moss',  $\sim tan^{33}$  'pumpkin',  $\sim tso^{31}$  'sparrow',  $\sim k \ge n^{35}$  'shrimp',  $\sim map^{31}$  'knot',  $\sim c \ge n^{33}$  'waistband',  $\sim tsi^{33}$  'snow',  $\sim kuk^{31}$  'frost'.
- l = 0- prefix in a few body part names:  $\sim k = 3$  'the lower jaw',  $\sim po^{55}$  'shoulder'.
- $na^{33}$  prefix in small persons and things:  $\sim la^{33}$  'baby',  $\sim mu^{33}$  'little girl',  $\sim tau^{33}$  'baby pig',  $\sim tsan^{55}$  'mouse',  $\sim tie^{31}$  'index finger',  $\sim hau^{33}$  'taro'.
  - $pu^{55}$  prefix in some animals:  $\sim lan^{31}$  'stallion',  $\sim cen^{55}$  'nanny (goat)'.
- $mu^{33}$  prefix in some plants and female animals:  $\sim pa\eta^{31}$  'peach tree',  $\sim \sin^{55}$  'pine',  $\sim lou^{33}$  'rice straw',  $\sim t\underline{a}\underline{u}^{33}$  'sow',  $\sim tsau^{33}$  'bitch'. Some female animals have the prefix  $mu^{33}$ -, but the relevant males do not have the prefix  $pu^{55}$ -,  $l \Rightarrow po^{31}t\underline{a}\underline{u}^{33}$  'boar',  $tsau^{33}l\underline{i}o^{31}$  'dog'.
- $tse^{0}$  prefix in some birds and made objects:  $\sim qa^{35}$  'duck',  $\sim nan^{35}$  'goose',  $\sim van^{31}$  '(ring-necked) pheasant',  $\sim lou^{35(13)}$  'pliers'.
- $m \Rightarrow^{33}$  prefix in some made objects:  $\sim tsa^{31}$  'hand straw cutter',  $\sim dou^{33}$  'firewood knife',  $\sim pe^{55}$  'patch'.
- $o^{55}$  prefix in some nouns of locality:  $\sim du^{33}$  'upper reaches (of a river), upper place (of land)',  $\sim nda^{33}$  'the lower',  $\sim lon^{33}$  'sky',  $\sim la^{31}$  'under the sky'.
- $di^{33}$  prefix in January ~March, or December of the Chinese lunar calendar: ~tsaŋ<sup>35</sup> 'January', ~ $ni^{31}$  'February', ~ $s\tilde{a}^{13}$  'March', ~ $li\tilde{a}^{31}$  'December'.
- $m \Rightarrow^{55}$  prefix in April ~November of the Chinese lunar calendar: ~ $pau^{33}$  'April', ~ $mi^{33}$  'May', ~ $b \Rightarrow^{55}$  'November'.

Head + Suffix type: In this type, the head is first, followed by the suffix (one or two syllables) to indicate certain conditions, parts of suffixes are reduplication.

ho<sup>31</sup> nuak<sup>31</sup> 'very slow' nda<sup>33</sup> pə<sup>55</sup> lou<sup>55</sup> 'very light (not heavy)' light slow lan<sup>13(31)</sup>tə<sup>0</sup>tan<sup>13</sup> 'be stark-naked' ndzou<sup>31</sup> mi<sup>31</sup> 'diamond bright' bright naked na<sup>13(35)</sup> ndo<sup>55</sup> 'shiny black'  $lu\tilde{a}^{13} h\tilde{o}^{55} h\tilde{o}^{55}$  'in a mess' black disorder pou<sup>31</sup> pe <sup>33</sup> 'very careless' na<sup>35</sup> wa<sup>35</sup> wa<sup>35</sup> 'very dark' careless dark

Infixed type: only one infix  $xi^{31}$  'is found, and it indicates small female animals',  $li^{55}$  'cattle',  $pu^{55}li^{55}$  'ox',  $mu^{33}li^{55}$  'cow',  $na^{33}li^{55}$  'calf',  $na^{33}pu^{55}li^{55}$  'small ox',  $mu^{33}xi^{31}li^{55}$  'small cow',  $mu^{33}la\eta^{31}$  'mare',  $mu^{33}xi^{31}la\eta^{31}$  'small mare',  $mu^{33}cen^{55}$  'nanny (goat)',  $mu^{33}xi^{3}cen^{55}$  'small nanny (goat)' (pu<sup>55</sup>,  $mu^{33}$ ,  $na^{33}$  are prefixes).

## 2.1.3 Semi-inflection

In some cases, related words differ only by vowel alternation, tense and lax vowel alternation, tonal alternation or consonants (initials) alternation. These include synonyms, antonyms, or the categories change.

#### Vowel alternation:

pho<sup>35</sup> '(maternal ) grandfather' phe<sup>35</sup> '(maternal) grandmother' mui<sup>31</sup> 'you (singular)' mi<sup>31</sup> 'you (plural)' ci<sup>55</sup>po<sup>31(55)</sup> 'yesterday evening' ca<sup>55</sup>po<sup>31(55)</sup> 'tomorrow evening' no<sup>33</sup> 'peppery' na<sup>33</sup> 'šalted' tsou<sup>31</sup> 'to eat' li<sup>35</sup> 'to return' li<sup>35</sup> 'to change'

## Tense vowel and lax vowel alternation:

kui<sup>33</sup> 'fire smoke'

mda<sup>33</sup> 'be light (of a lamp)'

luŋ<sup>33</sup> 'well'

kui<sup>33</sup> 'to dry with smoke'

mda<sup>33</sup> 'be light (of the sky)'

luŋ<sup>33</sup> 'abyss, deep cave'

## Tonal alternation:

 $tso^{55}$  'rake'  $tso^{35}$  'to harrow'  $tshun^{31}$  'throat'  $tshun^{33}$  'thirsty'  $tsan^{35}$  'to smell'  $tsan^{33}$  'smelly'

# Consonants (initials) alternation:

lan <sup>33</sup> 'clear (water)'	man <sup>55</sup> 'muddy (water)'
ni <sup>33</sup> 'this'	ki <sup>33</sup> 'that'
$pe^{31}$ 'we'	$he^{31}$ 'they'
mtsha <sup>13</sup> 'to kill'	mtsa <sup>31</sup> 'to die'
nap <sup>55</sup> 'be closed'	nap <sup>55</sup> 'to close one's eyes, to shut up '
dun <sup>33</sup> 'hole'	luŋ <sup>33</sup> 'well'

#### 2.2 Loan words

As the result of communication with the Han and the Zhuang, the Bugan language has borrowed some words from Han and Zhuang languages; all the borrowings are modern words. Some Bugan words are similar to Yi/Lolo or other Tibeto-Burman languages, but it is uncertain whether they are cognates or borrowings.

#### Chinese loan words:

Bugan	Chinese (Pinyin)	
miou <sup>31</sup> pεi <sup>35</sup>	miao bei	'temple' 'tablet'
tshaŋ <sup>31</sup>	chang	'to taste'
mə <sup>31</sup>	mai	'pulse'
-kan <sup>13</sup>	jin	'axe'
pin <sup>35</sup>	bing	'soldier'
min <sup>31</sup>	ming	'understand'
l <del>õ</del> 55çi31	liangshi	'grain'
hu <sup>31</sup> tsiu <sup>13</sup>	hujiao	'pepper'
ts <u>au</u> 33	jiu	'wine'
tsau <sup>35</sup>	zhao	'kitchen range'

# Zhuang loan words:

Bugan	Wuming (Zhuang)	
-man <sup>13</sup>	-man <sup>55</sup>	'plum'
-tsiap <sup>31</sup>	kep <sup>55</sup>	'chives'
-kw <sup>55</sup>	kw <sup>31</sup>	'eggplant'
ke <sup>13</sup>	kve <sup>24</sup>	'towel gourd'
te <sup>55</sup>	tai <sup>33</sup>	'bag'

mõ <sup>55</sup> -	mau <sup>42</sup>	'roof'
laŋ <sup>33</sup>	li:ŋ <sup>55</sup>	'umbrella'
bə <sup>35</sup>	ъш <sup>35</sup>	'greasy, be bored with'

# 3. Grammar

# 3.1 Word categories

Although Bugan has some cases of derivational morphology, we can divide Bugan word categories most surely on the basis of structure, distribution, and meaning. Categories are: nouns, pronouns, numerals, classifiers, verbs, adjectives, adverbs, prepositions, auxiliaries, conjunctions, or mood words.

#### 3.1.1 Nouns

Nouns can stand by themselves, or they can be modified by adjectives, pronouns, or numeral classifier phrases. Generally, the position of the modifier is after the head (noun).

lan <sup>31</sup> pou <sup>35</sup> 'a white horse' horse white			e' mg <sup>55</sup> o <sup>33(</sup> children I	31) 'my children'
	<sup>55</sup> ki <sup>33</sup> 'tha d that	t child'	we <sup>33</sup> me <sup>53</sup> yng. broth	the younger brother of the child' er child
o <sup>31</sup>	bi <sup>33(35)</sup> buy	mou <sup>33</sup> maknife on		'I bought one knife.'

When the cardinality of the noun is one, it can be directly modified by the classifier  $b2^{55}$  'one, classifier'.

```
w2^{33} b2^{55} 'one piece of stone ' b2^{55}kou^{13} b2^{55} 'one corn' stone class. corn class.

pun^{55} b2^{55} 'one flower ' pun^{55}lio^{31} b2^{55} 'one coat' flower class.
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Most nouns cannot be reduplicated, but many nouns that are concurrently classifiers, can be:  $he^{55}$   $he^{55}$  'every day'.

#### 3.1.2 Pronouns

Personal pronouns distinguish singular, dual, and plural, and the first plural pronouns distinguish inclusive and exclusive.  $b\underline{i}\underline{o}^{3l}$  is a blend of ' $bi^{3l}$  (two)  $pau^{3l}$  (classifier of people).'

$$5^{31}$$
 'I' wi  $3^{1}$  'we two' wi  $3^{1}$  'we (inclusive)' pe  $3^{1}$  'you (singular)' mi  $3^{1}$  bi  $2^{31}$  'you two' mi  $3^{1}$  'you (plural)' i  $3^{1}$  'he, she, it' he  $3^{1}$  bi  $2^{31}$  'they two' he  $3^{1}$  'they'

Some interrogative pronouns are formed with  $-pau^{35}$  (indicating interrogation) and other morphemes,  $o^{55}pau^{35}$  'where',  $ts = 0.55 pau^{35}$  'when',  $t = 0.55 pau^{35}$  'how many, how much',  $n = 0.55 pau^{35}$  'how many (people)',  $v = 0.55 pau^{35}$  'why'.

Demonstrative pronouns have two basic forms— $ni^{33}$  'this' and  $ki^{33}$  'that'. There are some others,  $ta^{55}ni^{33}$  'here',  $ta^{55}ki^{33}$  'there',  $m \Rightarrow^{55}ni^{33}$  'this side',  $m \Rightarrow^{55}ki^{33}$  'that side',  $na\eta^{13}ni^{33}$  'like this',  $na\eta^{13}ki^{33}$  'like that'. There are three deictic degrees to indicate location— $ki^{33}/da^{13}$  'that far',  $ke^{33}$  'that farther',  $o^{55}ke^{33}$  ' that farthest'.  $da^{13}$  is not often used.

me 
$$^{55}$$
 ki $^{33}$  xu $^{55(13)}$  lan $^{31}$  'That boy rides a horse.' child that ride horse "That boy (farther) has a meal.' child that eat meal "That boy (farther) has a meal." child that herd oxen

Normally, pronouns cannot be either modified nor reduplicated.

## 3.1.3 Numerals

 $b \circ^{55}$  'one',  $b \circ^{31}$  'two',  $m t \circ e^{31}$  'three',  $p \circ a u^{33}$  'four',  $m \circ e^{33}$  'five',  $p \circ e^{33}$  'six',  $p \circ u^{31}$  'seven',  $s \circ e^{33}$  'eight',  $s \circ e^{33}$  'nine',  $m \circ e^{31}$  'ten',  $s \circ u^{31}$  'hundred', thian 'thousand'.

Different forms of 'one' and 'two' have different uses; mə<sup>55</sup> 'one' and bi<sup>31</sup> 'two' are used with classifiers to form a numeral classifier phrase.

piau<sup>13(35)</sup> (people) mə<sup>55</sup> (one) pau<sup>31</sup> (classifier of people) 'one person', piau<sup>13(35)</sup> (people) bi<sup>31</sup> (two) pau<sup>31</sup> (classifier of people) 'two persons'.

mã <sup>31</sup> bo <sup>55</sup> 'eleven'	$me^{55}$ $zu^{31}l\tilde{\epsilon}^{33}$ $bo^{55}$	'one hundred and one'
mã <sup>31</sup> bi <sup>31</sup> '12'	bi <sup>31</sup> <b>z</b> u <sup>31</sup>	'two hundred'
bi <sup>33</sup> ( <sup>31</sup> ) mã <sup>31</sup> '20'	mə <sup>55</sup> thiaŋ <sup>13</sup>	'one thousand'
mə <sup>55</sup> <b>z</b> u <sup>31</sup> '100'	$me^{55} v\tilde{a}^{13}$	'ten thousand'

Normally, numerals cannot be modified or reduplicated.

# 3.1.4 Classifiers

Classifiers can be divided into three types—the classifiers for nouns (indicating measures of things, objects, etc.), for verbs (indicating measures of actions), or blends.

## Classifiers for nouns:

pau <sup>31</sup>	for people	piau <sup>13</sup> (35) bi <sup>31</sup> pau <sup>31</sup> 'two persons'
$bia^{33}$	for animals	li <sup>55</sup> mtse <sup>31</sup> biə <sup>33</sup> 'three oxen'
1 <u>i</u> 33	for long-shaped objects	xa <sup>33</sup> mə <sup>55</sup> li <sup>33</sup> 'one stick'
tshe <sup>13</sup>	for objects, river	you <sup>55</sup> mə <sup>55</sup> tshe <sup>13</sup> 'one river'
tsuŋ <sup>55</sup>	for plants	saui <sup>31</sup> pau <sup>33</sup> tsuŋ <sup>55</sup> 'four trees'
liu <sup>33</sup>	for sheet-shaped objects	yai <sup>35</sup> mə <sup>55</sup> liu <sup>33</sup> 'one sheet of paper'
tsam <sup>33</sup>	pair	sau <sup>33</sup> mə <sup>55</sup> tsam <sup>33</sup> 'a pair of birds'
pam <sup>35</sup>	portion	fei <sup>33</sup> mə <sup>55</sup> pam <sup>35</sup> 'a portion of food'

#### Classifiers for verbs:

time	zau <sup>31</sup> mə <sup>55</sup> tsi <sup>35</sup> 'have been there once'
for eating	tsou <sup>31</sup> mə <sup>55</sup> mtsa <sup>35</sup> 'have a meal'
for biting	tsa <sup>13</sup> mə <sup>55</sup> tuŋ <sup>55</sup> 'be bitten once'
for sleep	nan <sup>33</sup> mə <sup>55</sup> nga <sup>31</sup> 'have slept once'
for fist	nde <sup>35</sup> mə <sup>55</sup> taŋ <sup>33</sup> 'give sb. a box'
	for eating for biting for sleep

#### Blends:

mtse<sup>33</sup> for animals, consists of mə<sup>55</sup> 'one' and biə<sup>33</sup> (classifier), tə<sup>55</sup>kɔ̄<sup>33</sup> mtse<sup>33</sup> 'a tiger'.

biə̄<sup>13</sup> for animals, consists of bi<sup>31</sup> 'two' and biə<sup>33</sup> (classifier), tə<sup>55</sup>kɔ̄<sup>33</sup> biə̄<sup>13</sup> 'two tigers'.

mbaū<sup>55</sup> for people, consist of mə<sup>55</sup> 'one' and paū<sup>31</sup> (classifier), piaū<sup>13</sup>(35)) mbaū<sup>55</sup> 'one person'.

Classifiers can be modified by numerals and demonstratives.

ma<sup>0</sup>kua<sup>31</sup> mi<sup>33</sup> tsiu<sup>33</sup> 'five folk songs' song five classifier

fei <sup>33</sup> pa food fo	u <sup>33</sup> pam ur class	35 sifier	'four portions of food'
ziu <sup>55</sup> spoon	bo <sup>55</sup> classifier	ni <sup>33</sup> this	'this spoon'
au <sup>31</sup> firewood	tha <sup>33</sup> bundle	ki <sup>33</sup> that	'that bundle of firewood'

A few classifiers can be reduplicated to indicate 'every, all'.

Ķ.

 $h\epsilon^{55}$   $h\epsilon^{55}$  'every day' mai<sup>55</sup> mai<sup>55</sup> 'every month' day day month month

#### 3.1.5 Verbs

Some verbs have causative forms, indicated by ' $\eta g 2^{35}$  + verb', the original meaning of  $\eta g 2^{35}$  is 'to drive out'.

 $xou^{35}$  'to ride (a horse)'  $ngo^{35}xou^{35}$  'to order sb. to ride (a horse)'  $ngo^{35}pauu^{31}$  'to order sb. to get up'  $ngo^{35}pauu^{31}$  'to order sb. to get up'  $ngo^{35}tu^{33}$  'to order sb. or sth. to get out'

Some verbs have durative aspect (continuous aspect), indicated by 'sai $^{33}$  + verb +na $^{31}$ ' or 'verb +na $^{13}$ '.

 $o^{31}$  sai<sup>33</sup> pion<sup>13</sup> 'I'm writing.' dur. write I  $mu^{31} nu^{33} nan^{13}(31) me^{0}dze^{55}$ 'What are you doing?' dur. what do you sai<sup>33</sup> tsou<sup>31</sup> tsiu<sup>55</sup> nan<sup>31</sup> 1i55 'The ox is eating grass.' dur. grass dur. OX eat

Verbs can be modified by adverbs and auxiliary verbs.

 $pe^{13}(35)$  $me^{55}$  yen<sup>55</sup>  $me^{13}$ 'The elder sister doesn't take eld.sister after her mother.' like mother not  $z_{au}^{55(31)}$  nai<sup>55</sup>/n $e^{31}$  $\mathfrak{2}^{31}$ fan<sup>55</sup> 'I like to go to the market.' market Ι want go

# Verbs cannot be reduplicated.

# 3.1.6 Adjectives

Adjectives can be modified by different adverbs to indicate degrees.

1st degree 'adjective +  $te^{31}$ ', comparative 'adjective +  $te^{31}le^{31}$ ' superlative 'kaŋ<sup>55</sup>+ adjective +  $le^{31}$ '.

nu<sup>35</sup> o<sup>31</sup> lu<sup>31</sup> te<sup>31</sup> 'My house is good.' house I good indeed

 $nu^{35}$   $mu^{31}$   $lu^{31}$   $te^{31}le^{31}$  'Your house is better.'

 $nu^{35}$   $i^{31}$   $kan^{55}$   $lu^{31}$   $le^{31}$  'His house is the best.' house he most good most

Adjectives can be modified by all adverbs.

mo<sup>31</sup> te<sup>31</sup> 'be a bit too heavy' kan<sup>55</sup> mo<sup>31</sup> 'very heavy' heavy a bit very heavy

mo<sup>55</sup> lou<sup>33</sup> 'be not cold' to<sup>0</sup>ka<sup>33</sup> nu<sup>13</sup> 'do (it) immediately' not cold immediately do

Adjectives can be followed by 1~2 suffix syllables to indicate certain conditions (see § 2.1.2.2.), and most adjectives can be reduplicated.

nga<sup>31</sup> nga<sup>31</sup> 'deep yellow' ndzun<sup>33</sup> ndzun<sup>33</sup> 'very thin (person)' yellow yellow thin thin

## 3.1.7 Adverbs

Adverbs cannot be modified, their main grammatical function is to modify verbs and adjectives. Most of them occur before their heads, only few adverbs follow their heads (see 3.1.5, 3.1.6).

# 3.1.8 Prepositions

Prepositions form prepositional phrases with nouns and pronouns and play a sentence part.

p = 0  $nam^{55}$   $the^{31}$   $ts=^{55}$  $ni^{33}$  '(from ) last year until today.'

 $pi^{13}$  tho<sup>55(31)</sup> tsai<sup>31</sup>/ $pi^{33}$  ta<sup>55</sup> 'The sun is bigger than the moon.' sun big than moon

 $i^{33(31)}$   $lai^{55}$   $ban^{55}$   $pa^{55}$  saw<sup>31</sup>  $a^{33}$  'He has fallen from the top of a tree.' he fall from top tree come

#### 3.1.9 Auxiliaries

- $m \Rightarrow^{55}$  precedes adjectives, indicates quality or condition of sth. or sb.  $m \Rightarrow^{55} la^{13}(33)$  '(It) is red',  $m \Rightarrow^{55} nga^{55}(31)$  '(It) is yellow'
- la<sup>33</sup> precedes nouns, pronouns, forming a genitive.

  nu<sup>33</sup> mə<sup>55</sup>ni<sup>33</sup> la<sup>33</sup> mui<sup>55</sup>(<sup>31</sup>) 'This house is yours.'

  house here \*belong-to you
- $l\epsilon^{31}$  follows nouns, pronouns, forms a genitive.  $m\underline{o}\underline{u}^{33} \ \sigma^{31} \ l\epsilon^{31}$  'The knife is mine.' knife I belong-to
- follows verbs, indicates continuous action.  $me^{55}$  be<sup>35</sup>  $tsu^{31}$  on  $tsu^{35}$  be<sup>35</sup>  $tsu^{31}$  on  $tsu^{35}$  be<sup>35</sup>  $tsu^{31}$  on  $tsu^{35}$  child hold sugar cane two classifier 'This boy is holding two sugar canes.'

# 3.1.10 Conjunctions

Conjunctions are often used to link up content words or phrases.

we<sup>33</sup> le<sup>31</sup> du<sup>33</sup> eld. brother and ygr. brother 'elder brother and younger brother'

mtse<sup>33</sup> tso<sup>33</sup> kai<sup>33</sup> ma<sup>33</sup> mtse<sup>55</sup>(31) banana have or haven't '(Do you) have any bananas?'

#### 3.1.11 Mood words

They usually occur at the end of a sentence to indicate its mood. By itself a mood word has no meaning.

 $ma^{13}$ ,  $a^{33}$  occur in assertives.

 $i^{31}$   $me^{55}$   $ne^{31}$   $ma^{13}$  'He doesn't come here.'

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yau<sup>31</sup> yau<sup>31</sup>sau<sup>55</sup> tsu<sup>31</sup> mə<sup>55</sup> nam<sup>55</sup> a<sup>33</sup> go read auxiliary one year assert. 'He has gone to school for one year.'

ni<sup>55</sup> occurs in interrogatives.

 $i^{31}$   $no^{31}$   $me^{55}$   $no^{31}$   $ni^{55}$  'Does he come here?' he come not come ques.

la<sup>0</sup> occurs in imperatives.

 $wi^{31}$   $n\underline{a}^{55}$   $la^{0}$  Let us go!' we go imp.

#### 3.2. Phrases

There are subject-predicate phrases, verb-object phrases, parallel phrases, head-modifier phrases, verb-complement phrases, and numerical-classifier phrases.

# 3.2.1 Subject-predicate phrases

Subjects are usually formed by nouns, pronouns, nominal head-modifier phrases or parallel phrases. Predicates are usually formed by verbs, adjectives, verbal and adjective parallel (or head-modifier) phrases, or verb-complement phrases.

tsion<sup>33</sup> ngo<sup>35</sup> 'the deer steps on' deer step on

hon<sup>33</sup>  $zun^{55(31)}$  tsion<sup>33</sup> tsan<sup>33</sup> 'Footprints of deer are smelly.' footprint foot deer smelly

 $1^{31}$   $1^{31}$   $1^{31}$   $1^{35}$  1

we<sup>33</sup> le<sup>33</sup> pe<sup>35</sup> n.e<sup>31</sup>bio<sup>33</sup> di<sup>31</sup> eld. bro. and sis.-in-law quarrel terribly 'Elder brother quarrels with sister-in-law terribly.'

 $m\underline{\varepsilon}^{55}$   $o^{33(31)}$   $zou^{13}$   $tho^{31}$   $zou^{13}$   $vo^{33}$  child I also big also tall 'My child is big and tall.'

# 3.2.2 Verb-object phrases

The elements which act as an object are the same as those that act as a subject:

```
te<sup>31</sup>
                                                 thun<sup>31</sup>go<sup>31</sup>
worship buckwheat
 'to offer buckwheat as a sacrifice to (ancestors)'
tan^{35} saw<sup>31</sup> le^{33}
                                                                                             law<sup>35(13)</sup>
put-in garlic and prickly-ash
 'to put some garlic and Chinese prickly ashes (in the bag)'
ta<sup>35</sup>ti<sup>55</sup> mw<sup>31</sup>
give you
 'to give you'
p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0 p_0
Bugan afraid Nong Zhigao Emperor
 'The Bugan were afraid of Emperor Nong Zhigao.'
```

# 3.2.3 Parallel phrases

Parallel phrases can be formed by two or more nouns, pronouns, verbs, or adjectives, some use conjunctions but others don't.

çu <sup>33</sup>	tau <sup>33</sup>	çu <sup>33</sup>	ts <u>a</u> 35	'pork and chicken'
meat	pig	meat	chicken	
o <sup>31</sup> he	$l\epsilon^{31(33)}$ and	i <sup>31</sup> I	'he and I'	

 $mui^{31}$   $le^{33}$   $n_a^{33}mu^{33}$   $z_a^{55}$   $po^{31}$ dance a reedpipe wind instrument girl and you 'You and the girls dance following the music (played by a reedpipe wind

instrument).'

```
tsan^{31} a^{33}
                 tsou<sup>31</sup>
                                                     'take (it) back and eat'
take
          assert. come eat
kan<sup>55</sup> tho<sup>55(31)</sup> kan<sup>55</sup> yo<sup>33</sup>
                                                    'big and high'
          big
                                    high
                          very
very
```

# 3.2.4 Head-modifier phrases

There are two types. When nouns act as the head they may be modified by adjectives, pronouns, nouns, or numerical classifier phrases (see § 3.1.1.). When verbs or adjectives act as the heads, they may be modified by adverbs and time nouns (see § 3.1.5. and § 3.1.6.).

# 3.2.5 Verb-complement phrases

Verbs can be followed by adjectives, verbs, or numerical classifier phrases to complete their meaning, thus forming a verb-complement phrase.

 $bio^{33} di^{31}$  $ne^{31}$ 'to quarrel terribly' quarrel terribly kan<sup>35</sup> thun<sup>33</sup> 'to cut down' fall cut  $bi^{35}$   $tsu^{31}$   $bi^{31}$   $tshe^{13}$ 'to hold two' auxiliary two classifier hold  $\mathbf{z}$ au<sup>31</sup> yau<sup>31</sup>sau<sup>55</sup> tsu<sup>31</sup> nam<sup>55</sup> mə<sup>55</sup>  $a^0$ auxiliary go read one year 'have gone to the school for one year'  $yo^{33}$  mtse<sup>31</sup> tshu<sup>33</sup> i31 high three chi he 'He is three chis (a unit of length) high.'

# 3.2.6 Numerical classifier phrases

These consist of 'numeral + classifier'; some become blends (see §3.1.3, §3.1.4).

# 3.3 Sentence parts and word order

Bugan is a SVO language; only the existential sentence is OSV (see §3.4). Attributes follow heads; some adverbials follow heads, but the others precede heads. Complements always follow heads.

The elements which act as subject or object in a sentence are the same as those in a phrase; some examples are found in §3.1, §3.2; below are some more sentences.

S V O
nuŋ³¹tsi¹³kɔ³⁵thie¹³tsш⁵⁵ tɛ³¹tou³³(13) pə⁵⁵kan³³
Emperor Nong Zhigao pursue Bugan
'Nong Zhigao Emperor pursued the Bugan.'

S V O Complement
pə<sup>55</sup>kan<sup>33</sup> nu<sup>33</sup>mtsan<sup>35</sup> ka i<sup>33</sup>o<sup>55</sup>biou<sup>33</sup>
Bugan spend festival on the mountain top.
'The Bugan spend festivals on top of the mountain.'

S V O or S Predicate  $mi^{31}$   $a^{33}$   $ta^{33}(^{35})$   $pu^{55}$   $\underline{lio}^{31}$   $ni^{33}$   $z\underline{a}^{33}$   $mə^{55}z\underline{a}^{33}$  you come look coat this good not good 'Please come here to look my coat, and tell me if it is good or not.'

S V O

531 nd531 se31 tau33 me55ni33

I like sell pig this
'I'd like to sell this pig.'

S Predicate  $kou^{13} t\underline{ai}^{31(55)} me^{55}ni^{33} kan^{55} me^{31} ni^{55}a^0$  corn basket this very heavy mood word 'This basket of corn is very heavy.'

The elements which act as attributes and complements in a sentence are the same as those in a phrase (attribute equals the modifier of nouns). Adverbials are formed by adverbs, adjectives, time nouns, or pronouns. Some examples were given in §3.1 and §3.2, and there are some more examples below.

#### Adverbial Attribute

he<sup>33</sup> ni<sup>33</sup> o<sup>31</sup> mtsha<sup>13</sup> tse<sup>0</sup>qa<sup>35</sup> mi<sup>33</sup>biə<sup>33</sup> today I kill duck five classifier 'I have killed five ducks today.'

#### Adverbial

pə<sup>55</sup>kan<sup>33</sup> kai<sup>33</sup> qha<sup>35</sup> tsu<sup>33</sup>n u<sup>33</sup> mtsan<sup>35</sup>
Bugan on way spend festival
'The Bugan spent the festival on the road (when they moved).'

## Attribute Adverbial Complement

 $va^{31}$  thu<sup>55</sup>  $ni^{33}$  khon<sup>35</sup> sou<sup>55</sup>  $o^{55}$   $pe^{13}tou^{13}$  take vegetable this all put inner basket 'Please put all vegetables in the basket.'

## Adverbial Attribute Complement

i<sup>31</sup> ban<sup>55</sup> o<sup>55</sup> te<sup>55</sup> o<sup>33</sup> be<sup>35</sup> tham<sup>55(33)</sup> tsa<sup>13</sup> bio<sup>31</sup> no<sup>31</sup> he from inner pocket pull take egg hen two come 'He takes two eggs out from his pocket.'

In subjects or objects, heads are often modified by several attributes (modifiers). In these cases, adjectives are general, closest to the head, then personal pronouns; demonstrative pronouns are always the farthest from the head.

lan<sup>31</sup> pou<sup>35</sup> mə<sup>55</sup>ni<sup>31</sup> 'this white horse' horse white this

man<sup>55</sup> o<sup>31</sup> ki<sup>33</sup> mi<sup>33</sup> pau<sup>35</sup>(<sup>31</sup>) le<sup>13</sup> lui<sup>31</sup> daughter-in-law I those five classifier all good 'All of my five daughters-in-law are excellent.'

The older Bugan people (60 years old and up) are accustomed to inserting  $k\underline{a}i^{33}$  'have' between the head and the modifier when the modifier is a numeral-classifier phrase.

 $li^{55}$   $k\underline{a}i^{33}$   $mi^{33}$   $biə^{33}$  'There are five oxen.' ox have five classifier  $xa^{33}$   $k\underline{a}i^{33}$   $mə^{55}$   $li^{33}$  'There is one stick.' stick have one classifier

# 3.4 Sentence patterns

#### 3.4.1 Existential sentences

Existential sentences indicate that someone has something or there is something in some place, and all objects in this pattern are placed before the subject and verbs; the sentence order is OSV.

 $pe^0qou^{55}$   $pi^{35}$   $k\underline{ai}^{33}$   $mtse^{31}$   $b2^{31(55)}$  sky sun have three classifier 'There are three suns in the sky.'

ton<sup>13</sup> saui<sup>31</sup> o<sup>31</sup> kai<sup>33</sup> bio<sup>31</sup> bucket wood I have pair 'I have a pair of water buckets.'

mtse<sup>33</sup>tso<sup>33</sup> mw<sup>31</sup> kai<sup>33</sup> ma<sup>33</sup> mtse<sup>55</sup> banana you have or not 'Do you have any bananas?'

# 3.4.2 Assertives and negatives

Some assertives have no linking verb.

ki<sup>33</sup> man<sup>55</sup> 'That is my daughter-in-law.'  $\mathfrak{2}^{31}$ daughter-in-law that i31 kho<sup>33</sup> pə<sup>55</sup>khui<sup>55</sup> 'He may be a Han.' He Han may  $we^{33}$   $du^{33}$   $kan^{31}$ bi<sup>31</sup> '(They) two are blood brothers.' brother blood two be MKS 26:135-159 (c)1996 See archives.sealang.net/mks/copyright.htm for terms of use.

Linking verbs have two forms— $ni^{33}/nu^{33}$ . They are used in assertives. The original meaning of  $nu^{33}$  is 'do'; it is not often used as a linking verb.  $ni^{33}$  may be related to  $ni^{33}$  'this'.  $san^{55}$  is used in negatives.

```
o<sup>31</sup> ni<sup>33</sup>/nu<sup>33</sup> pə<sup>55</sup>kan<sup>33</sup>

I be Bugan
'I am a Bugan.'

o<sup>31</sup> mə<sup>55</sup> saŋ<sup>55</sup> piau<sup>13</sup> pə<sup>55</sup>se<sup>33</sup>

I not be man Guangnan
'I am not a person who lives in Guangnan Town.'

mou<sup>33</sup> mə<sup>55</sup>ni<sup>33</sup> lio<sup>55</sup> mə<sup>55</sup> saŋ<sup>55</sup>

knife here my not be
```

# 3.4.3 Comparative sentences

'This knife is not mine.'

Comparative sentences are used to compare the conditions and characters of people or things. Basically, their nuclear form is 'adjective -  $tsai^{31}/pi^{13}$  - noun (pronoun or nominal phrase)';  $tsai^{31}/pi^{13}$  are prepositions, they govern nouns (or nominal phrases) and form a prepositional phrase (or a prepositional clause).

```
li<sup>55</sup> tho<sup>31</sup> tsai<sup>31</sup>/pi<sup>13</sup> tau<sup>33</sup> ox big than pig 'An ox is bigger than a pig.'
```

```
me<sup>55</sup> i<sup>31</sup> se<sup>31</sup> tsai<sup>31</sup>/pi<sup>13</sup> me<sup>55</sup> mui<sup>31</sup> children he smart than children you 'His children are smarter than your children.'
```

Although Bugan is a tonal language, most of its words are monosyllabic, and only a few words show morphological changes, still, the Bugan language is very close to Mon-Khmer. From its basic vocabulary, we can clearly observe the close relation between Bugan and other Mon-Khmer languages. From the following wordlist, we note that Bugan shares many cognates in basic vocabulary with Mon-Khmer languages especially with Lai/Bolyu of Guangxi Zhuang Autonomous region, China.<sup>1</sup> In coming papers, I will discuss the origin of Bugan tones, Bugan's relation to Lai/Bolyu and its position in the Mon-Khmer stock.<sup>2</sup>

<sup>&</sup>lt;sup>1</sup> Bugan and Lai/Bolyu words come from my investigations, Old Mon (spoken in the Dvaravati Kingdom of Central Thailand in the VI to IXth Centuries A.D.) words from Diffloth: The Dvaravati Old Mon Language and Nyah Kur, and the words from the other Mon-Khmer languages come from F. E. Huffman, "An Examination of lexical correspondences between Vietnamese and some other Austroasiatic languages," Lingua 43:171-98 (1977). Vietnamese phonetic values are taken from Laurence C. Thompson. 1987. A Vietnamese Reference

	B G	L	V	С	LW	K	ОМ
one	bo <sup>55</sup> /mo <sup>55</sup>	$ma^{33}/mai^{31}$	một	muəy		moov	*mway
two	bio31/bi31	mbi <sup>55</sup>	hai	•			*baar
three	mtse31	pa:i <sup>55</sup>	ba	bəy			*pii?
four	nau 33	pu:n <sup>53</sup>	bốn	buən	paon		*pan
five	mi <sup>33</sup>	$me^{33}$	năm [nem]	pram	phon		*(m-)suun
six	pio <sup>33</sup>	piu <sup>53</sup>	sáu [sev]	_	_		*t(-w-)raw
seven	pou <sup>31</sup>	pai <sup>55</sup>	bay [6e1]				*tmpoh
eight	sã 33	sa;m <sup>53</sup>	tám				*tncaam
nine	ci <sup>33</sup>	cən53	chín				*(k/t)nciit
ten	mã <sup>31</sup>	ma:n <sup>33</sup>	mười [mười]				*cas
hundred	$zu^{31}$	<b>3</b> 3 <sup>3</sup>					
hand	tie <sup>55</sup>	ti55	tay [tei]	day	te?	ti?	*təy
bone	7a <sup>35</sup>	pa:u <sup>31</sup> ze <sup>55</sup>	xương [smon]	cqəŋ	sə?aŋ	c?aaŋ	*j(l)uut
foot	zuŋ <sup>31</sup>	zoŋ <sup>55</sup> zi <sup>31</sup>	chân [cʌn]	(cəəy)	chuəŋ		*juŋ
tail	na <sup>55</sup> wei <sup>51</sup>	<b>z</b> i <sup>31</sup>	duôi [ɗuei]	(kantuy)			*prtaa?
tooth	tsə35	man <sup>31</sup>	răng (zeŋ)	(tmin)			*ŋiək
hair	$sak^{55}$	suk <sup>53</sup>	tốc [trukp]	saq	haək		*sook
eye	$pa^0$ m $\varepsilon^{33}$	ła:i <sup>53</sup> ma <sup>31</sup>	mat	(pneek)	?ŋae		*mat
neck	kon <sup>33</sup>	$lon^{31}$	cổ	kaa		_	*koo?
nose	$p_{\mathbf{a}}0_{\mathbf{m}\underline{\tilde{a}}}31$	$lon^{33}mi^{11}$	mũi [mui]	craemoh	maəh	muh	*(*cə)-
	022	21	a ~				moh
tongue	$pe^{0}lai^{33}$	lim <sup>31</sup>	lưỡi [lưười]	leas Bru			*klntaak
bird	sau <sup>33</sup>	sən <sup>53</sup>	chim [cim]	saem	0	•	*knciem
dog	tsau <sup>33</sup>	tsu <sup>53</sup>	chó [cɔ]	ckae	so?	so?	*clur
fish	$se^{0}qou^{33}$	q <sub>2</sub> 53	cá [ka]	ka?	ka?		*kaa?
tree	sau <sup>31</sup>	sa:u <sup>55</sup>	cây [keɪ]	(kuəl)	11.0	110	*chuu?
leaf	lou <sup>13</sup>	zi <sup>11</sup>	lá *	slək	hla?	hla?	*slaa?
root	yaw <sup>13</sup>	71-1	rě	rih	reh	rieh	*ris
stone	tou <sup>33</sup>	mau <sup>11</sup> loŋ <sup>33</sup>	dá	tmaa	Some?		*tmoo?
cave	You55	a:n <sup>55</sup>	الأ	(atim)	dəluh Brac	•	*sruŋ
river	da <sup>35</sup>	nde <sup>53</sup>	sống [sauŋm]	(stin)	kloŋ		*kroon
water	ho <sup>55</sup> tsu <sup>33</sup>	ko <sup>53</sup>	nước [nườk] dướng [ɗườŋ]	bk ⅓			*daak *trəw
road wall	lon <sup>13</sup>	<sub>Dε</sub> 33 <sub>vo</sub> 13	~		ndan		. HAM
wan T	231	a:u <sup>55</sup>	tường [twŏŋ] anh [?ɐɲ]	cəñceə ŋ ?añ	ndən		*?əy
son	kua <sup>55</sup>	qu:n <sup>55</sup>	con [kon]	koun	kuən	koon	*koon
year	nam <sup>35</sup>	nam 13	năm [nem]	cnam	na <del>i</del> m	KJJII	*cnaam
weave	ta <sup>31</sup>	ta:n <sup>55</sup>	dan [ɗan]	tbaan	tan	taan	*taan
eat	tsou <sup>31</sup>	tso <sup>55</sup>	xơi [sŏi]	sii	som	uagi	*caa?
spin	wan 13	$pin^{33}$	quay [kwei]	(wil)	U		*wiən
die	mtsa31	łet_55	chét [cet]	(*****)			*at
cut	γ <sub>E</sub> n <sup>35</sup>	an <sup>53</sup>	cat [ket]	kat			*c-rn-aa?
bite	tsa <sup>13</sup>	tsən <sup>53</sup>	can [ken]	kat	kiət		*kut
	<b>x:</b>		[ <b></b> ]		• •		340 €

Grammar. Honolulu: University of Hawaii Press. BG=Bugan, L=Lai/Bolyu, V=Vietnamese, C=Cambodian, LW=Lawa, K=Khmu/, OM=Old Mon.

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