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VERB CONCATENATION IN LAHU:  
THE SYNTAX AND SEMANTICS OF 'SIMPLE'  
JUXTAPOSITION

by

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1.0. *Introduction.*

The Tibeto-Burman languages in general, and Lahu in particular, are remarkable for the apparent ease with which two or more verbs may be strung together or concatenated by simple juxtaposition to form complex verb phrases.<sup>1</sup> Lahu verb concatenation is of considerable interest for its own sake; but it will be a major goal of this paper to show that this phenomenon also raises some very general questions concerning the interrelationship of semantics and grammar. Specifically, there is a well-defined class of cases where the evidence indicates that it is the inherent semantic features of individual verbs which actually determine the structural descriptions of concatenations.

One of the verbs in each Lahu verb concatenation is the logical head. The others stand in some sort of subordinate relationship to the head, occurring either all to the head's left, or all to its right, or, often, flanking the head on both sides. Sometimes these concatenations reach quite impressive lengths, as in the examples in Fig. 1:

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1 The present paper is based on eighteen months' fieldwork on Lahu in northern Thailand in 1965-6, and is a reworking of material to be found in Ch. IV of my dissertation, *A Grammar of the Lahu Language*, Berkeley 1967 (University Microfilms, Ann Arbor, Michigan). A much briefer version of this article was presented at the Chicago meetings of the Linguistic Society of America in Dec. 1967.

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A.	nà-hi	ġa	qòʔ	chî	tòʔ	pî	ve <sup>2</sup>
	1	2	3	4	5	6	
		<sub>v</sub> V	<sub>v</sub> V	V <sub>h</sub>	V <sub>v</sub>	V <sub>v</sub>	
	“We had-to lift (it) out again for (them).”						
		1	2	4	5	3	6
B.	nà-hi	ta	yù	qai	ci	cô	ve lâ
	1	2	3	4	5	6	7 8
		<sub>v</sub> V	V <sub>h</sub>	V <sub>v</sub>	V <sub>v</sub>	V <sub>v</sub>	
	“Should we make (them) begin to take (it) away ?”						
		6	1	5	2	3	4 8

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*Fig. 1. Some multiversatile concatenations.*

In Sentence A, the main verb *chî* ‘lift’ is preceded by two verbs, *ġa* ‘be obliged’ and *qòʔ* ‘repeat, do again’, and followed by two other verbs, *tòʔ* ‘come out, emerge’ and *pî* ‘give’, yielding a VP meaning roughly ‘had to lift it out again for someone’s benefit’. In Sentence B, the main verb *yù* ‘take’ is preceded by the verb *ta* ‘begin’ and followed by three other verbs, *qai* ‘go (away)’, *ci* ‘send; causative’, and *cô* ‘be fitting, proper, right’, yielding a VP meaning roughly ‘ought to cause to begin to take away’.

The non-head elements in these strings are all true verbs, and can each occur alone as the only verb in a VP, though with a slightly different meaning in many cases.<sup>3</sup> They are members of a sizable class of Lahu verbs that are distinguished by what might be termed their ‘juxtapository productivity’, and which we call *versatile verbs*.<sup>4</sup> Those versatile verbs which occur before their verb-head ( $V_h$ ) are called *pre-head versatiles* ( ${}_vV$ ); those which occur after their  $V_h$  are the *post-head versatiles* ( $V_v$ ). With a couple of minor and irrelevant exceptions, the class of  ${}_vV$ ’s and the class of  $V_v$ ’s are disjoint: a given versatile verb occurs either always before or always after its verb-head.

2 For those who like their forms pronounceable, the following are the values of the Lahu tonal diacritics: Mid-tone 33 (unmarked); high-rising 45 /’/; high-falling 54/’/; low-falling 21 /’/; very low 11 (2) /\_/\_/; high-glottal /’ʔ/; low-glottal /’ʔ/.

3 As we shall see, when verbs of this type occur alone in a VP, their meanings tend to be ‘more concrete’ than when they occur as subordinate elements in concatenations. This fact will turn out to be of considerable importance.

4 The term ‘versatile’ is borrowed from Y. R. Chao, who has used it to characterize the combinability characteristics of a class of elements in Chinese binomial compounds. I prefer ‘versatile’ to ‘auxiliary’, both because the class is open and quite large, and because some of its members are not at all abstract in meaning.

Lahu versatile verbs serve to provide in a uniform surface way the sort of information that in the surface grammar of languages like English is handled by a formally disparate array of subordinating devices: complementary infinitives, -ing complements, modal auxiliaries, adverbs, prepositional phrases, even whole subordinate clauses (see Fig. 2):

<i>Comp. Infinitives:</i>	<i>-ing Complements:</i>	<i>Modal Auxiliaries:</i>
qô ša 'easy to hoe'	qô ki 'busy hoeing'	qô cô 'should hoe'
dô? ša 'easy to hit'	dô? ki 'busy hitting'	dô? cô 'should hit'
ta qô 'begin to hoe'	qô bô 'bored hoeing'	qô phê? 'may hoe'
ta dô? 'begin to hit'	dô? bô 'bored hitting'	dô? phê? 'may hit'
<i>Adverbs:</i>	<i>Prepositional Phrases:</i>	<i>Subordinate Clauses:</i>
qô? qô 'hoe again'	qô pi 'hoe for (smn)'	qô ni 'hoe and see'
qô? dô? 'hit again'	dô? pi 'hit for (smn)'	dô ni? 'hit and see'
qô bà 'hoe away'	qô yà? 'hoe in error'	qô te 'do so it's hoed'
dô? bà 'hit away'	dô? yà? 'hit in error'	dô? te 'do so it's hit'

Fig. 2. The gamut of English subordinating devices vs. Lahu juxtaposition.

The 'simplicity' of Lahu in this regard is highly deceptive, however. Lahu verb phrases are not thrown together in a way which is '*supra grammaticam*'.<sup>5</sup> On the contrary, we shall try to demonstrate that there is an exceedingly complicated though elusive grammar to be characterized here: several interlocking systems of semantic and syntactic constraints which together determine the order, the membership, the constituent structure, the meaning and the length of actual and possible concatenations.

As a foretaste of things to come, consider the by no means rare type of ambiguous concatenation represented by the examples in Fig. 3:

lò chê	1. 'beg to be there'	ta ša	1. 'begin to be easy'
	2. 'is begging'		2. 'easy to begin'
gã ki	1. 'have to be busy'	ga ci	1. 'help to send'
	2. 'be busy getting'		2. 'cause to help'

Fig. 3. Ambiguous concatenations.

5 As the great Sinologist H. A. Giles once maintained the Chinese language to be. "This dictionary will supply sentences without number to which grammarians will have some trouble in making their rules apply; and it is in this sense that Chinese is essentially *supra grammaticam*." *A Chinese-English Dictionary*, 2d. Ed., Paragon Book Reprint Corp., New York 1964, p. xiv.

Strings like these are ambiguous in two different though inextricably connected ways: the verbs involved may be said to have two 'meanings' each, but these meaning differences can be shown to be a function of a difference in underlying syntactic structure.<sup>6</sup>

## 2.0. *Types of multiverbal constructions.*

(This section may be skipped without much prejudice to the logic of the presentation by those who have no particular interest in the details of Lahu grammar.)

Not every sequence of verbs in Lahu (still less every sequence of morphemes each of which translates as an English verb) constitutes a true versatile concatenation. There are a variety of other multiverbal constructions in the surface grammar. These are all easily distinguishable from versatile concatenations in principle, though there are certain types of borderline cases which are problematical.

Before developing the structure of versatile concatenations, therefore, it would be well to give a brief account of the other multiverbal constructions, along with the formal and semantic criteria which serve to differentiate them.

### 2.1. *V + P<sub>v</sub> sequences.*

Verb-particles (P<sub>v</sub>'s) are bound morphemes which occur in post-verbal position and serve to orient the verbal idea along one or another of several semantic dimensions, temporal, modal, aspectual, etc. Some of the P<sub>v</sub>'s cover a semantic territory which is quite comparable to that of the more abstract sort of post-head versatile verb. Of especial importance are the desiderative P<sub>v</sub> gâ and the experiential P<sub>v</sub> jɔ:

qai gâ	'want to go'	qai jɔ	'has ever gone'
câ gâ	'want to eat'	câ jɔ	'has ever eaten'

But the P<sub>v</sub>'s fail the requirements for verbhood: they may not constitute VP's by themselves, and they may not be preceded by the negative adverb mâ. V + P<sub>v</sub> sequences are therefore not 'multiverbal' at all.

### 2.2. *Fortuitous concatenations: 1e-deletion.*

Lahu verbs are said to be in *fortuitous concatenation* when they appear in juxtaposition even though they belong to separate underlying VP's. In

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<sup>6</sup> See below 4.2. These cases are to be carefully distinguished from those for which I wish to claim that it is the semantic features of the individual verbs which *determine* the syntactic structure of the concatenation. See below, 'Fore-and-aft concatenations', 6.0 *et seq.*

most cases the verbs represent a series of temporally consecutive actions. Consider the examples in Fig. 4:

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A.	dô? 'to pack up' and pû 'to carry on the back'	
	ò-e cà-qha dô? pû və lɛ	'mother packed up the rice
	V <sub>h</sub> V <sub>h</sub>	and carried it out . . .'
B.	kə 'to put in' and khû 'to break, shatter'	
	hə khi-ʂɛ yù kə khû lɛ	'he took the elephant's foot, put
	V <sub>h</sub> V <sub>h</sub>	it in (the tub), and it broke . . .'
C.	pô? 'to jump', chè? 'to bite', and câ 'to eat'	
	lâ pô? chè? câ pə ʂɛ ve cê	'The tiger jumped (on them),
	V <sub>h</sub> V <sub>h</sub> V <sub>h</sub>	bit into (them), and ate (them)
		all up.'

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Fig. 4. Fortuitous concatenations.

Fortuitous concatenations of this type are best regarded as having been generated by a transformational deletion of the suspensive particle lɛ<sup>7</sup> from between the verbs in series. It is the function of lɛ (like that of the Japanese -TE form or the Sanskrit 'gerund' in -tvā, etc.) to indicate that the preceding clause is *not the last* in a series of clauses. (A Lahu 'clause' consists of a VP plus one or more preceding, 'associated' NP's.) It is always grammatical, and it does not change the meaning, to reverse the effect of the transformation by 'reinserting' lɛ between each pair of fortuitously concatenated verbs:

C'. lâ pô? lɛ || chè? lɛ || câ pə ʂɛ ve cê  
           V<sub>h</sub>       V<sub>h</sub>       V<sub>h</sub>

To insert lɛ between two verbs in versatile concatenation, on the other hand, either renders the construction unintelligible or completely changes the meaning by making two VP's out of the previous single one,<sup>8</sup> as in Fig. 5.

It is a complicated matter to specify precisely the conditions under which the lɛ-deletion transformation may operate, and it would be beyond the

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<sup>7</sup> lɛ is, technically, a 'non-final unrestricted particle' (P<sub>Unf</sub>); 'unrestricted' because it occurs after both nouns and verbs, 'non-final' because it occurs post-verbally only in non-final clauses of compound sentences. See Matisoff, *op. cit.*, Ch. II, pp. 65-69.

<sup>8</sup> An exception is a certain type of V<sub>v</sub> of resultative meaning, which *when negativized* may sometimes be preceded by lɛ with only a slight change of meaning. See below 2.4.

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qai 'to go' and bò 'be lazy; be tired of'	
qai bò (vers. concat.) 'be tired of going'	
V <sub>h</sub> V <sub>v</sub>	
qai lɛ bò (VP's in series) 'having gone, become lazy; went and	
V <sub>h</sub> V <sub>h</sub> (after he got there) was lazy'	

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Fig. 5. Insertion of lɛ in versatile concatenations.

scope of this paper to attempt to do so.<sup>9</sup> Suffice it to say that only a relatively small proportion of permissible Clause<sub>n</sub> + lɛ + Clause<sub>n+1</sub> sequences may undergo the transformation: in particular, those where Clause<sub>n+1</sub> contains nothing before the VP (that is, no 'associated NP's'), and nothing in its VP before the V<sub>h</sub> (that is, no adverbs, not even the negative mâ, and no pre-head versatile). Further conditions are that the underlying subject of each of the clauses must usually be the same (but see example B above), and that none of the verbs in the concatenation may be a V<sub>adj</sub>.

### 2.3. Fortuitous concatenations arising from deletions of other types.

Sometimes verbs come to stand in surface juxtaposition as the result of a long and tortuous transformational history. Consider the following example:

šú-qhu nî qhu kə ləʔ chíʔ ve	"He rolls enough (tobacco)
V <sub>h</sub> V <sub>v</sub> V <sub>h</sub>	6 5
1 2 3 4 5 6	to put-into two pipes."
	4 2,3 1

The clause šú-qhu nî qhu kə ləʔ 'enough to put into two pipes', consists of the V<sub>h</sub> kə 'put into' followed by the post-head versatile verb ləʔ 'enough', and preceded by the associated NP šú-qhu nî qhu 'two pipes'. This whole clause derives from an object NP associated with the main verb chíʔ 'to roll up, crumple'. This object NP originally consisted of a relative clause modifying the noun 'tobacco' ('tobacco that is sufficient to put into two pipes'), thus:

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<sup>9</sup> A prerequisite to the task would be a solution to the immensely difficult problem of specifying the conditions under which clauses may be conjoined by lɛ in the first place. For example, if the underlying subject of each of the clauses is the same, certain selectional restrictions obtain among their verbs: the semantic features of each successive pair of verbs must be 'consecutively congruent'. Thus 'jump-bite-eat' is a consecutively congruent series, while \*'die-sleep-jump' is an 'incongruous' one.

$\left[ \begin{array}{c} \text{šú-qhu ní qhu} \\ \text{NP}_{loc} \end{array} \right]$	$\left[ \begin{array}{c} \text{kə ləʔ tù} \\ \text{V}_h \text{ V}_v \text{ P}_v \\ \text{VP} \end{array} \right]$	$\text{ve šú}$ $\text{N}_{rh}$	$\text{chíʔ ve}$ $\text{V}_h$ $\text{VP}$
$\text{NP}_{obj}$			

The 'universal particle' ( $P_{univ}$ ) *ve* here serves as the relative marker connecting the preceding relative clause to the following 'relative-head' ( $N_{rh}$ ) *šú* 'tobacco'. The aspectual  $P_v$  *tù* indicates that the action of a preceding verbal nucleus is hypothetical, purposive, future, or otherwise non-actual.

The operation of several interrelated deletion transformations whose precise formulation does not concern us here<sup>10</sup> has the ultimate effect of erasing the morphemes *tù ve šú* from the string, thus accidentally bringing the verbs of the relative clause into juxtaposition with the verb of the main clause.

That this is not a case of simple *le*-deletion is immediately obvious from the extralinguistic fact that the action of putting in the tobacco is not temporally prior to the action of rolling it up.

2.4. *Resultative complements (C<sub>r</sub>'s).*

An important type of binomial verbal construction consists of a main verb followed by a secondary verb of resultative meaning which serves to indicate the successful or non-successful completion of the action of the former.<sup>11</sup>

In some cases the resultative verb has a meaning which is quite general, enabling it to occur after relatively large numbers of main verbs. Resultatives of this sort are therefore to be regarded as nothing more than a subtype of the post-head versatile verbs (see below 4.123). The  $V_v$  *čí* 'to  $V_h$  so it sticks,  $V_h$  firmly' is typical:

- 
- jùʔ chí* 'to stab home (so that the knife remains in the wound)'
  - bəʔ chí* 'to shoot home (as of an arrow which is made to stick in the target)'
  - thəʔ chí* 'to hook fast onto; to hold fast to with a curved object'
- 

Fig. 6. Resultative  $V_v$ 's.

10 The 'Deletion of relative head Transformation', followed by 've-Ellipsis after *tù*' and 'Purposive *tù*-deletion'. See Matisoff, *op. cit.*, 6.2, pp. 597 *et seq.*

11 Similar constructions are encountered throughout the Sino-Tibetan family, as well as in Tai. Cf. the Mandarin *jiann* and the Thai *hən*, both referring to the results of an effort of visual perception.



In other cases, however, the resultative verb may occur after only one or two specific  $V_h$ 's. Thus *tò?* 'to catch fire' appears after no other verb than *tú* 'to kindle'; *dò* 'to fit inside' occurs only after the verbs *kə* 'to put into' and *dô?* 'to pack into'; *mi* 'to catch' occurs only after *ğà?* 'to chase'. These resultatives are anything but 'juxtapositorily productive', and may therefore be excluded summarily from the class of versatile verbs. They are best characterized as 'resultative complements ( $C_r$ 's)'.<sup>12</sup>

Given that the  $C_r$ 's are closely wedded to particular  $V_h$ 's, it might seem attractive to consider  $V_h + C_r$  sequences as a type of lexical compound. But this is impossible because of the different behavior of the two constructions under negation. The negative adverb *mâ* may never intervene between the elements of a compound, but must always precede the first element; in resultative constructions, on the other hand, *mâ* may always be introduced directly before the  $C_r$ .<sup>12</sup> Thus,

*tú mâ tò?* 'does not catch fire'  
*kə mâ dò* 'does not fit into'  
*ğà? mâ mi* 'does not catch'

Most members of the class of  $C_r$ 's, in fact, *never* occur after a main verb without an intervening *mâ*:

$V_h$	$C_r$ (neg)	$V_h + C_r$ (neg)
<i>qai</i> 'go'	<i>ğà</i> 'reach, arrive'	<i>qai mâ ğà</i> 'does not arrive; doesn't make it there'
<i>te</i> 'do'	<i>là</i> 'come'	<i>te mâ là</i> 'cannot do; does not get to do'
<i>phə</i> 'flee'	<i>pò</i> 'escape, reach safety'	<i>phə mâ pò</i> 'flees unsuccessfully; gets caught trying to escape'
<i>ma</i> 'teach'	<i>şı</i> 'know, understand'	<i>ma mâ şı</i> 'cannot learn; has a thick skull'
<i>ca</i> 'feed'	<i>câ</i> 'eat'	<i>ca mâ câ</i> 'is unable to eat'

Fig. 7. Obligatorily negativized  $C_r$ 's.

<sup>12</sup> On rare occasions the *mâ* may precede the  $V_h$ , yielding a resultative construction with a subtly different meaning. The same is true of the variable position of *mâ* in certain post-head versatile concatenations.

Occasionally a negative resultative construction is split up into two separate VP's by the insertion of a particle: either the suspensive  $P_{\text{Unf}}$  *le* 'and' or the concessive  $P_{\text{Unf}}$  *kà?* 'even'. Thus:

tú *le* mâ tò? '(someone) lit it, and (it) didn't catch fire'  
 tú *kà?* mâ tò? 'even though (someone) lit it, it didn't catch fire'

The subjects of the  $V_h$  and of the resultative verb are now different. Interestingly enough, versatile verbs of resultative meaning lend themselves to a similar splitting from the main verb when negativized:

jù? *le* mâ cí '(someone) stabbed it, but  
 (the knife) did not stick (in it)'

#### 2.5. *Lexical compounds.*

Lexical compounds whose elements are both free verbs are common in Lahu:

nù 'to stink' + qhâ 'be bitter': nù-qhâ 'have a bitter stink; be acrid'  
 phε 'to restrain' + chî? 'to bind' : phε-chî? 'to tie up'  
 chî 'to lift' + mu 'be high' : chî-mu 'to praise, extol'

It is usually quite easy to distinguish such compounds from versatile concatenations. Neither of the elements in a true compound is juxta-productive; each occurs in at most a few compound-combinations with verbs of compatible semantic nature. Compounds once established acquire the status of unitary lexical items. It is as difficult to invent a comprehensible and acceptable Lahu compound as it is to create any neologism. Binary versatile concatenations, on the other hand, are freely 'inventable'. Novel combinations of particular  $V_h$ 's with particular versatile verbs are generally not even recognized to be such, so readily interpretable are they.

Furthermore, compounds are exclusively binomial, and the order of the elements may never be reversed. But versatile concatenations often contain two or more versatile verbs in addition to the  $V_h$ , and in certain of these cases two of the versatiles may be permuted with corresponding change of meaning, as we shall see. Finally, neither the negative *mâ* nor verb-particles may ever intervene between the elements of a compound; both may occur within post-head versatile concatenations under certain conditions.

Very occasionally, however, we encounter a pair of verbs which seems to constitute a borderline case, having properties characteristic of both compounds and versatile concatenations:

2.51. *'Idiomatic' concatenations.*

In this situation one verb of the pair is indisputably versatile, but the meaning of the pair is not deducible from those of the 'V<sub>h</sub>' and the 'versatile' verb. Thus pɔ 'to be born' joins with the V<sub>v</sub> ša 'be easy; easy to V<sub>h</sub>, pleasant to V<sub>h</sub>' to form the verb pɔ-ša 'rich, well-off, prosperous'.

Similarly,

na 'to listen' + ni 'to look at; to	→ na-ni 'to ask a question'
V <sub>h</sub> and see; try	
V <sub>h</sub> 'ing'	
chî 'to lift' + bà 'to throw; to	→ chî-bà 'to discard,
V <sub>h</sub> away, to V <sub>h</sub> off'	abandon, reject'

Verb sequences of this type are to be regarded as ordinary compounds, with whose syntactic behavior they entirely agree.

2.52. *'Restrictedly versatile' concatenations.*

Harder to evaluate is the case of the verb câ 'eat'. câ is sometimes an undoubted post-head versatile, with the abstracter meaning 'to V<sub>h</sub> for a living; to earn one's bread by V<sub>h</sub>'ing', as in mî câ 'to earn one's living farming', h̄ câ 'sell for a living', etc.

However, to a certain number of verbs relating to the preparation of food, or to the killing of an edible animal, câ may be directly juxtaposed with its concrete meaning 'to eat'. Thus:

cá câ	'to boil and eat; boil for eating'
pì câ	'to roast and eat; roast for eating'
bɔ? câ	'to shoot and eat; shoot for eating'

These sequences are like compounds in that the possible partners of câ are restricted to a narrow semantic range; they are like fortuitous concatenations in that the two verbs represent temporally successive actions, but unlike them in that it is not possible to insert le between the elements; and they are like versatile concatenations in that a) the verbs which may precede câ in this construction are actually considerable in number (Lahu happens to abound in verbs relating to the preparation of food), and b) the meaning of each sequence is easily predictable from the sum of its parts.

On balance, we must consider the concrete-câ strings to be versatile concatenations. As we shall see, some versatile verbs are much abstracter

than others; this fact is of crucial importance to an understanding of the whole concatenative process.

Let us proceed to examine the inner workings of the three general types of versatile concatenations: pre-head ( $\nu$ C), post-head ( $C\nu$ ), and 'fore-and-aft' ( $\nu C\nu$ ).

3.0. *Pre-head concatenations* ( $\nu$ C's).

The simplest  $\nu$ C's are binary, with a single pre-head versatile verb preceding the  $V_h$ . Let us use " $\beta$ " to symbolize the 'verbal nucleus' of a Lahu VP: that is, the obligatory  $V_h$  plus any versatiles that may optionally be juxtaposed to the head.<sup>13</sup> We may then generate binary  $\nu$ C's by some such rule as the following schematic one:

$$\text{Rule 1. } \beta \rightarrow (\nu V) + V_h$$

Consider these examples:

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qò? ni 'look at again'	qò? yù 'take again'	qò? hò 'cry again'
ḡò ni 'clap eyes on'	ḡò yù 'grab'	ḡò hò 'sob'
t̄a ni 'begin to look'	t̄a yù 'begin to take'	t̄a hò 'begin to cry'
qhò ni 'sneak a look'	qhò yù 'take surreptitiously'	qhò hò 'cry in secret'

---

Fig. 8. Binary  $\nu$ C's.

The versatile verb is in a subordinate, modifying relationship to the head on the right. This 'right-headedness' of  $\nu$ C's becomes very obvious if we consider permutations of binary concatenations consisting of two verbs *both* of which belong to the class of  $\nu$ V's, as in the following examples:

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qhò phò? 'assemble secretly'	lò t̄a 'ask to begin'
$\nu V$ $V_h$	$\nu V$ $V_h$
phò? qhò 'steal in a group'	t̄a lò 'begin to ask'
$\nu V$ $V_h$	$\nu V$ $V_h$

---

Fig. 9. Permutations of two pre-head versatiles.

In such cases, each verb of the pair is the head of the construction when it appears second, but is the  $\nu$ V when it appears first. Thus, as main verbs,

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<sup>13</sup> The verbal nucleus  $\beta$  may itself be preceded by an adverbial phrase and followed by verbal- and/or unrestricted particles, thus:  $VP \rightarrow (AP) + \beta + (P\nu) + (PU)$ .

qhò means 'to steal' and phò? means 'to assemble, pile up', but as  $\sqrt{V}$ 's they mean 'to  $V_h$  stealthily' and 'to  $V_h$  in a group', respectively.

As an anchor for further discussion, we now list the twelve most important pre-head versatiles and their meanings. Of especial interest is the relationship between the head-meaning and the versatile-meaning of each member of the class:

<i>Verb:</i>	<i>Meaning as a <math>V_h</math>:</i>	<i>Meaning as a <math>\sqrt{V}</math>:</i>	<i>Examples:</i>
a. ġò <sup>14</sup>	'to pull, drag, yank'	(used simply to enliven the $V_h$ )	ġò tú 'set something the hell on fire' ġò ġà?-yù 'chase vigorously' ġò bò? 'shoot with élan'
b. ġà <sup>15</sup>	'to get, obtain, catch'	1. 'have the chance to $V_h$ ; get to $V_h$ ' 2. 'must $V_h$ '	ġà mò 'get to see; meet, find' ġà pí 'must give' ġà ġò 'must read; get the chance to read'
c. qò?	'to go back, return'	'to $V_h$ again; to $V_h$ also'	qò? ġò 'read again' qò? qai 'go again' qò? cò 'have also, have as well'
d. ta	'to begin'	'to begin to $V_h$ '	ta ġò 'begin to read' ta hò 'begin to cry' ta yò 'begin to speak'
e. ca	'to look for, go and seek'	'to go and $V_h$ '	ca ġâ 'go and visit' ca hò 'go and sell' ca bò? 'go and shoot'
f. ga	'to help'	'to help to $V_h$ '	ga chí 'help to lift' ga ġò 'help to read' ga thu 'help to chop down'

14 Much less commonly the verb lò? 'enter' may also be used as an enlivening  $\sqrt{V}$ . The highly colloquial usage of a morpheme ġâ?, probably to be identified with the verb meaning 'to scratch', as an enlivener requires further investigation.

15 There is a homophonous post-head versatile (Caudal subclass) with the meaning 'able to  $V_h$ ', which is clearly related. Shan influence may well be involved here. How else is one to explain the astonishing parallel between ġà and, for example, the Central

<i>Verb:</i>	<i>Meaning as a V<sub>h</sub>:</i>	<i>Meaning as a <sub>v</sub>V:</i>	<i>Examples:</i>
g. phô?	'to assemble; gather together; pile up'	'to V <sub>h</sub> in a group; V <sub>h</sub> together'	phô? yì? 'sleep together' phô? ca 'look for together' phô? ġo 'read together'
h. qhô	'to steal, rob'	'to V <sub>h</sub> sneakily or secretly'	qhô na 'listen on the sly, eavesdrop' qhô ġo 'read in secret' qhô lò? 'enter steal-thily'
i. cí <sup>16</sup>	'to stick to, adhere'	'to V <sub>h</sub> incessantly'	cí cá 'eat incessantly' cí mā 'teach all the time' cí lò 'beg incessantly'
j. lò	'to ask for'	'to ask to V <sub>h</sub> ; beg to V <sub>h</sub> '	lò cá 'ask (for something) to eat' lò ġo 'ask to read' lò phê 'ask to be set free'
k. yù	'to take'	'to take and V <sub>h</sub> ; pick up something and V <sub>h</sub> it'	yù bà 'take and throw away' yù ġo 'take up and read' yù hî? 'take and shake'
l. gu	'to fix, repair; revise; prepare'	'to re-V <sub>h</sub> better than before; to V <sub>h</sub> over again'	gu bù? 'write better than before; rewrite' gu chî? 'tie better than before; retie' gu ha 'winnow better than before'

3.1. *Multiversatile pre-head concatenations.*

The most interesting <sub>v</sub>C's are those which are 'multiversatile'; that is, those which contain more than one <sub>v</sub>V. These are generable, in a crude

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Thai auxiliary verb *dāj*, which means 'get to V<sub>h</sub>' when it occurs *before* the V<sub>h</sub>, but 'able to V<sub>h</sub>' when it comes *after* the V<sub>h</sub>?

16 *cí* also occurs as a post-head versatile meaning either 'to persist in V<sub>h</sub>'ing' or, resultatively, 'to V<sub>h</sub> so it sticks; to V<sub>h</sub> permanently'.

and schematic way,<sup>17</sup> by adding the following optional, recursive rule to the grammar:

$$\text{Rule 2. } V_h \rightarrow \underset{\text{opt}}{vV} + V_h$$

Consider the following example, containing not less than four pre-head versatiles:

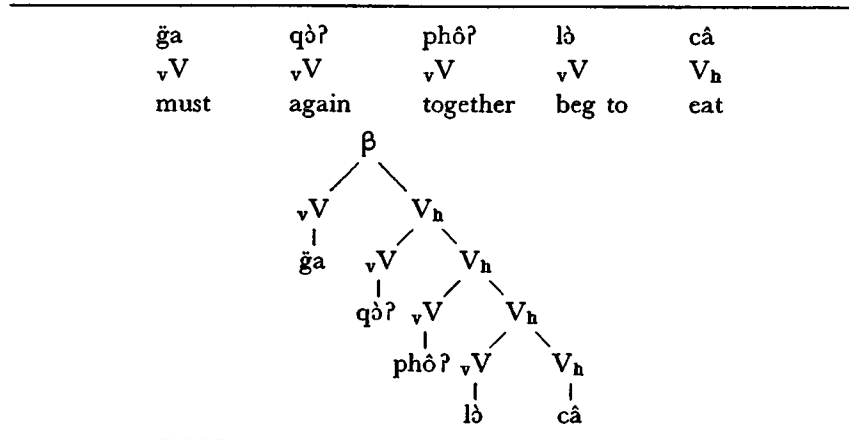


Fig. 10. A multiversatile  $vC$ .

Each verb or verb-sequence to the right of a given verb functions as the latter's head. The most deeply embedded of the  $vV$ 's, lò, is subordinate to its head câ—the act of begging is secondary to its envisaged goal, eating: 'beg to eat'. lò câ as a whole is the head of phò?: the 'begging to eat' is performed 'together'. phò? lò câ as a whole is the head of qò?: the action of 'together begging to eat' is performed 'again'. Finally, the string qò? phò? lò câ as a whole is the head of ġa: it is the 'repetition of the communal act of supplication to relieve hunger' which is deemed to be 'necessary'.

Exhaustive elicitation has shown that this analysis, so far as it goes, truly reflects the way in which the Lahu understand pre-head concatenations.

It might well be objected at this point that what is actually involved is a nesting of embedded *sentences*, with each verb in the concatenation deriving ultimately from a separate underlying sentence. For a variety of reasons I find that approach cumbersome for the present purpose.<sup>18</sup> But

17 Constraints of order and selection have yet to be specified.

18 It would require a great clanking of generative machinery: obligatory deletions of dummy NP 'subjects', rules specifying that no adverbs or particles may occur in any of the underlying sentences but the one underlying the  $V_h$ , etc.

note that it does not really affect the substance of the argument at all whether one operates with embedded sentences or simply embedded verb-strings. In either case we are still faced with the problem of stating the very complex restrictions on the concatenative process, the nature of the hierarchical relationship among the concatenated entities, etc.

3.12. *Syntactic-semantic constraints on multiversatile  $\nu$ C's.*

When more than one  $\nu$ V occurs in the same concatenation, careful elicitation has shown that they must be strictly ordered in conformity with a rule which may be graphically summarized as follows:

g̃ò	g̃a <sup>19</sup>	qò? <sup>19</sup>	ta	ca	ga	phô?	qhô	cí	lò	gu	V <sub>h</sub>
									yù		

Fig. 11. Pre-head order rule.

Thus, for example, *phô?* must precede *lò*, but must follow *g̃a* or *qò?*.

This ordering is anything but arbitrary from the semantic point of view. Although semantic theory has not developed to the point where a rigorous characterization of the notion of 'abstractness' is possible, it should be intuitively obvious from a perusal of the concatenation-glosses listed above (3.0) that all of the  $\nu$ V's are not on a par in this regard: a few have meanings which are much more general or abstract than others. Even an *a priori* semantic subclassification of the  $\nu$ V's according to the English gloss would yield a scheme not far different from the following:

- 
- A. Enlivener: g̃ò
  - B. Aspectuals: g̃a 'must' (obligative); qò? 'again' (iterative); ta 'begin' (inceptive)
  - C. Specifics: ca 'go and'; ga 'help to'; phô? 'together'; qhô 'stealthily'; cí 'incessantly'; lò 'ask to'; yù 'take and'; gu 'fix and'
- 

Fig. 12. Semantic sub-types of pre-head versatiles.

The correlation between the syntactic and semantic properties of these verbs is striking: the more abstract, general, or 'aspectual'<sup>20</sup>  $\nu$ V's occur

19 The behavior of *g̃a* and *qò?* with respect to the order rule is of particular interest: they may occur in *either* order unless a third  $\nu$ V follows, in which case *g̃a* must precede. See below.

20 It is easy to find labels for the 'aspectual'  $\nu$ V's which correspond to categories existing in languages with aspectual systems *proprement dits*, as 'iterative', 'inceptive', etc.



to the left of those which have a more concrete, specific, or 'marked' semantic content. That is, *the more abstract the  $\sqrt{V}$ , the less intimate its connection with the  $V_h$* . The more concrete  $\sqrt{V}$ 's are attracted centripetally to the head, forming compound heads to which abstracter versatiles may stand in a subordinate, modifying relationship. The verb  $\check{g}\dot{o}$  is the extreme case. As a main verb it means 'pull' or 'yank', but as a  $\sqrt{V}$  it functions merely to make more vivid the force of the VP. It is the loosest and semantically most empty  $\sqrt{V}$  of them all, and thus always occurs first in any concatenation in which it appears.

It might here be objected that we have stacked the semantic deck a little in our subclassification above, simply to bring the semantic sub-types in line with the distributional data. Why could one not, for example, give  $\text{ph}\acute{o}?$  'together' a fancy aspectual name, say, 'comitative', and include it among the Aspectuals?

But the English glosses are, of course, beside the point, since they are at best but crude approximations to the Lahu meanings. To set up semantic sub-classes on such a basis would be worse than useless in elucidating the way in which the Lahu actually understand concatenations. It is not that our semantic classification has been artificially 'influenced' by the order-properties of the  $\sqrt{V}$ 's. I am claiming rather that these order-properties—which are irreducible facts of Lahu grammar—cannot be divorced from certain inherent semantic features of the individual verbs, and are in fact merely the manifestation of those features.<sup>21</sup>

We view the  $\sqrt{V}$ 's, then, as being situated along a continuum of abstractness from left (abstracter) to right (concreter). At one point along this continuum there is further syntactic evidence for demarcating the Enlivener and the Aspectuals on the one hand from the Specifics on the other: the four verbs of the former two classes ( $\check{g}\dot{o}$ ,  $\check{g}\dot{a}$ ,  $\text{q}\acute{o}?$ ,  $\text{t}\dot{a}$ ) are the only  $\sqrt{V}$ 's that may occur in  $\sqrt{C}$ 's whose  $V_h$  is an adjective ( $V_{adj}$ ).<sup>22</sup>

Exs.  $\check{g}\dot{o}$  chu 'be mighty fat'       $\check{g}\dot{a}$  chu 'must be fat'  
 $\text{q}\acute{o}?$  chu 'be fat again'       $\text{t}\dot{a}$  chu 'begin to be fat'

But not, e.g.,  $\text{*ph}\acute{o}?$  chu 'be fat together'

21 I see no circularity in maintaining that although we can arrive at a conception of the underlying semantic properties only on the basis of induction from syntactic data, it is these very properties which *determine* the syntactic behavior in question.

22 Lahu  $V_{adj}$ 's are distinguishable from action verbs ( $V_{act}$ ) on several grounds, chiefly co-occurrence relationships with verb-particles. The  $V_{adj}$ 's occur before many fewer  $P_V$ 's than do  $V_{act}$ 's; in particular, adjectives do not occur before imperative  $P_V$ 's.

This behavior is also, it seems to me, to be explained in terms of the abstract/concrete parameter. Adjectives in Lahu (perhaps in languages in general?) tend to be highly concrete and specific, highly marked in meaning; so much so that their semantic features would be selectionally incompatible with any but the abstractest  $\nu V$ 's.

We have already noted (Footnote 19) that the aspectual  $\nu V$ 's  $\bar{g}a$  'must' and  $q\dot{o}?$  'again' may occur in either order relative to each other (unless a third  $\nu V$  follows in the same  $\nu C$ ). The Lahu do not feel there is any discernible meaning difference between, say,  $q\dot{o}?$   $\bar{g}a$   $c\dot{a}$  and  $\bar{g}a$   $q\dot{o}?$   $c\dot{a}$ :

$\nu V$   $\nu V$   $V_h$        $\nu V$   $\nu V$   $V_h$

they are both translatable as 'must eat again'. Notice that simply according to the principle of rightward-headedness there is a theoretical difference in meaning between these two concatenations. Thus,  $q\dot{o}?$ — $\bar{g}a$   $c\dot{a}$  would mean 'again—must eat': that is, there are at least two separate instances of obligation involved.  $\bar{g}a$ — $q\dot{o}?$   $c\dot{a}$ , on the other hand, would mean 'must—eat again': that is, having eaten before, of one's own free will perhaps, one is now for the first time, actually *obliged* to repeat the action. Be that as it may, the distinction is far-fetched from the Lahu point of view. We would say that, for the Lahu,  $\bar{g}a$  and  $q\dot{o}?$  have, in this environment, abstraction-values which are identical for all practical purposes. They are therefore not hierarchically ordered, but rather coordinate in their subordination to the  $V_h$ .<sup>23</sup>

3.13. *Recasting  $\nu C$ 's to achieve alternative hierarchical structures.*

Suppose a Lahu desires to produce a multiversatile utterance containing the semantic components of several  $\nu V$ 's, but in which these components stand in a hierarchical relationship to each other that is different from that prescribed by the order rule. Thus, to return to the example in 3.1, there is no difficulty in producing via simple concatenation a sentence meaning, "We again ask together to eat it." But how would one say, for instance, "We ask to eat it together again"—that is, where it is the eating that is performed together rather than the asking? The answer, as indicated in Fig. 13, is that in such cases the sentence must be partially recast, typically by breaking up the concatenation into two pieces, nominalizing one of the pieces, and embedding it as the object of the other piece.

Thus only sentence A is directly generable as a single concatenated VP, containing the three  $\nu V$ 's  $q\dot{o}?$  'again',  $ph\dot{o}?$  'together', and  $l\dot{o}$  'ask to', in

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<sup>23</sup> We shall return to this concept of co-ordinate subordination in our discussion of certain fore-and-aft concatenations, below 6.14.



to preclude the generation of unacceptable concatenations: those of uninterpretable or over-complex structure.

Relatively few pairs of  $\sqrt{V}$ 's are mutually exclusive even in the absence of a third  $\sqrt{V}$ . Only  $\check{g}\dot{o}$  and  $t\check{a}$ ,  $ga$  and  $c\acute{i}$ , and  $y\grave{u}$  and  $l\grave{o}$  may not co-occur before a  $V_h$  under any circumstances.<sup>26</sup> When a third  $\sqrt{V}$  is to be added, the restrictions become more severe: e.g., of both  $t\check{a}$  and  $ca$  or both  $\check{g}\dot{o}$  and  $ca$  are chosen, *no* third  $\sqrt{V}$  may occur. The options are still more restricted when it is a question of adding a fourth  $\sqrt{V}$ : e.g., after many sequences like  $\check{g}\acute{a}$   $t\check{a}$   $qh\acute{o}$ ,  $q\dot{o}?$   $ca$   $ga$ ,  $t\check{a}$   $ph\acute{o}?$   $c\acute{i}$ , etc., *no* fourth  $\sqrt{V}$  may ensue. Further cramping one's concatenative style are selectional constraints deriving from the semantic features of the particular *verb-head* and/or from any *post-head* versatiles that the concatenation may include.

It would not be profitable to attempt to spell out all these restrictions in anything like an exhaustive manner, particularly since many of them are properly to be characterized in terms of 'asymptotically decreasing probabilities' rather than absolute exclusions. For the moment we simply observe that the more concrete, specific, or marked the semantic content of a versatile verb is, the less readily it participates in lengthy concatenations. In the context of pre-head concatenations, this means that it is quite common to find more than one 'aspectual'  $\sqrt{V}$  in a given concatenation, but relatively much rarer to find more than one 'specific'  $\sqrt{V}$ .

### 3.2. Negation of $\sqrt{C}$ 's.

In general nothing may intervene between a  $\sqrt{V}$  and its  $V_h$ , or between one  $\sqrt{V}$  and another.<sup>27</sup> In particular, the negative adverb  $m\grave{a}$  must always be introduced before the first  $\sqrt{V}$  in a  $\sqrt{C}$ , thus:

$m\grave{a}$   $\check{g}\acute{a}$   $gu$   $b\grave{u}?$  'does not have to re-write'  
Adv  $\sqrt{V}$   $\sqrt{V}$   $V_h$

It is interesting to note that concatenations containing the Enlivener  $\check{g}\dot{o}$  may not be negated. This suggests that the 'enlivening' feature contributed by  $\check{g}\dot{o}$  is something like [+positive action].

### 4.0. Post-head concatenations ( $C_{\sqrt{V}}$ 's).

The post-head versatiles ( $V_{\sqrt{V}}$ 's) are a much more numerous class than the  $\sqrt{V}$ 's—there are several dozen of them in common use—but they divide

<sup>26</sup> It was convenient to build only the  $y\grave{u}$ - $l\grave{o}$  exclusion into the order chart, above.

<sup>27</sup> Post-head concatenations are quite different in this regard. Both negative  $m\grave{a}$  and a number of verb-particles may be inserted at certain points within  $C_{\sqrt{V}}$ 's, though this is of little relevance to the argument of our paper.

themselves fairly neatly on the basis of distributional and semantic criteria into four great sub-classes: Juxtacapitals, Medials, Caudals, and Variables. Members of these classes co-occur in multi-versatile  $C_v$ 's in the order indicated in the following chart:

$V_h$	Juxtacapitals	$\wedge$ Medials $\wedge$ Caudals $\wedge$ Variables
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Fig. 14. Order of sub-types of post-head versatiles.

As is the case with the pre-head versatiles, there is a strong correlation between the semantic features characteristic of each subclass of  $V_v$ 's and the relative position of that class in multiversatile concatenations:

The *juxtacapitals*, as the name implies, always occur directly after the head. They number about twelve, and all have highly concrete meanings related to modes of motion or directionality. As might be expected, the juxtacapitals are all mutually exclusive with one another. They are as closely welded to the  $V_h$  as are such English 'particles' as *out* or *away*.

The *medials* are the most numerous and semantically heterogeneous of the subclasses. They have highly specific meanings, like 'late', 'dare', 'busy', 'easy', etc., and, like the juxtacapitals, are mutually exclusive (with a few trivial and far-fetched exceptions). The class is open, and includes several Shan loanwords.

The *caudals* are a small but important class of versatiles of very abstract meaning that occur at the tail-end of  $C_v$ 's. More than one caudal may appear in a given concatenation, though this is rare. The meanings of three members of the class relate to modes of ability or potentiality.

The *variable* subclass of  $V_v$ 's is in many ways the most interesting. Their meanings are so abstract that they resemble aspectual particles. They enjoy the greatest concatenative freedom of any versatile verbs, and may occur either before or after medials or caudals, as well as either before or after other variables. However, each of the alternative orderings determines a different hierarchical arrangement of the semantic components of the concatenated verbs.<sup>28</sup>

One indication of the greater abstractness of the caudals and versatiles, as opposed to the juxtacapitals and medials, is that many members of the former two classes may occur in concatenations whose  $V_h$  is a  $V_{adj}$ , though no juxtacapital or medial may.

28 This is entirely consistent with maintaining that the very fact of the variable versatiles' order-variability is a *consequence* of the abstractness of their meanings.

We proceed to a more detailed discussion of each of the four subtypes of  $V_v$ 's, at first confining ourselves primarily to concatenations containing only a single post-head versatile.

#### 4.1. Binary post-head concatenations.

Concatenations comprising a single  $V_v$  are generable by some such rule as the following:

$$\text{Rule 3. } \beta \rightarrow V_h + (V_v),$$

where the  $V_v$  is unspecified as to subclass.

#### 4.11. Binary $C_v$ 's with juxtacapitals.

Verb:    *Meaning as  $V_h$ :*    *Meaning as  $V_v$ :*    *Examples:*

a.  $kə$  'to put into, insert; to be inside'    'to  $V_h$  into'

$j\acute{u}?$   $kə$  'impale' ("stab into")  
 $m\grave{a}?$   $kə$  'blow into'  
 $c\grave{a}?$   $kə$  'push into'  
 $th\acute{e}?$   $kə$  'kick into'

b.  $l\grave{o}?$  'to enter'    'to move into in the manner of the  $V_h$ '

$g\grave{a}?$   $l\grave{o}?$  'run into'  
 $p\grave{a}?$   $l\grave{o}?$  'fall over into'  
 $ce$   $l\grave{o}?$  'fall down into'  
 $\acute{s}e$   $l\grave{o}?$  'lead into'

$l\grave{o}?$  differs slightly from  $kə$  in that it only occurs after  $V_h$ 's which are themselves verbs of motion.

c.  $t\acute{s}?$  'to come out; to appear'    'to  $V_h$  out; to appear'    'so something comes out'

$g\grave{o}$   $t\acute{s}?$  'pull out; pull apart'  
 $n\acute{i}$   $t\acute{s}?$  'squeeze out'  
 $ch\acute{i}$   $t\acute{s}?$  'lift out from'  
 $\acute{s}i$   $t\acute{s}?$  'twist out'

This verb sometimes has a quasi-resultative meaning. See 4.123.

d.  $l\grave{a}$  'to come'    'to come in order to  $V_h$ '

$qa-m\grave{a}$   $l\grave{a}$  'come to sing'  
 $n\grave{a}?$ - $\acute{u}$   $te$   $l\grave{a}$ <sup>29</sup> 'come to chat'  
 $ca$   $g\grave{a}$   $l\grave{a}$ <sup>30</sup> 'come to visit'

Versatile  $l\grave{a}$  is to be distinguished from the morphophonemically related 'cisative  $P_v$ '  $la$ , which means 'to V in this direction; to V hither'.

29  $n\grave{a}?$ - $\acute{u}$ , probably to be considered a noun meaning 'conversation', occurs only with the verb  $te$  'do', forming a complex verbal expression meaning 'to chat sociably'.

30 In this example the  $V_h$   $g\grave{a}$  is preceded by the pre-head versatile  $ca$ , which indicates purposive motion. See the remark under  $qai$ .







is pointed up by the fact that at least half the members are  $V_{adj}$ 's, whereas no other class of versatile verbs comprises any adjectives at all.<sup>32</sup>

It is convenient to further subdivide the medials into four categories: adjectival, active (= non-adjectival), resultative, and enlivening.

#### 4.121. *Adjectival medials.*

Since  $V_{adj}$ 's, whether functioning as  $V_h$ 's or versatile verbs, have much less concatenational freedom than other verbs, it is to be expected that the adjectival medials would concatenate exclusively with non-adjectival  $V_h$ 's —and such is indeed the case.<sup>33</sup>

In the following lists, loans from Shan are marked with an asterisk.

<i>Verb:</i>	<i>Meaning as <math>V_h</math>:</i>	<i>Meaning as <math>V_v</math>:</i>	<i>Examples:</i>
a. lɛ	'to be late'	'to $V_h$ (too) late'	là lɛ 'come late' bù? lɛ 'write too late'
b. šó	'to be early'	'to $V_h$ (too) early'	nô šó 'wake up early' thu šó 'chop down too early'
c. ša	'to be easy'	'easy to $V_h$ ; pleasant to $V_h$ ; interesting to $V_h$ '	ni ša 'good-looking; nice to look at' na ša 'interesting to listen to' te ša 1. 'easy to do' 2. 'pleasant to do'
d. ha	'to be difficult; be poor, wretched'	'difficult to $V_h$ ; unpleasant to $V_h$ '	ši ha 'hard to twist' na-ni ha 'unpleasant to ask'
e. i	'to be big'	'to $V_h$ a lot'	lò i 'beg for a lot' yù i 'take a lot'

The medial mâ and the caudal jâ are much more common than i as versatiles, and have similar meanings. See below).

f. i	'to be little'	'to $V_h$ a little bit'	kə i 'put in a little' šá i 'pluck a little'
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The adverb a-cí is much more frequently used to convey this meaning.

32 With the possible exception of the variable lò? 'enough', though a case may be made for considering this an 'action verb' like the English 'suffice'. At any rate 'enough' is much more abstract than an adjective like 'early' or 'busy'.

33 But see below, k. (mâ) and 4.125. Adjectival  $V_h$ 's concatenate regularly only with some of the caudals and variables.

<i>Verb:</i>	<i>Meaning as V<sub>h</sub></i>	<i>Meaning as V<sub>v</sub>:</i>	<i>Examples:</i>
g. *ki	'to be busy'	'be busy V <sub>h</sub> 'ing'	qô ki 'be busy hoeing' jô? ki 'be busy threshing'
h. *khè?	'to be wearisome'	'to V <sub>h</sub> with difficulty; V <sub>h</sub> through suffering; be tiresome to V <sub>h</sub> '	hu khè? 'difficult to raise (of children)' jû khè? 'walk with difficulty'
i. *kə(n)	'to be worthy'	'be worthy of V <sub>h</sub> ; be worthy of being V <sub>h</sub> 'ed'	yô kə 'be trustworthy' tho kə 'worthy of being told'
j. bô	'to be lazy; be boring, depressing'	'be tired of V <sub>h</sub> 'ing; be too lazy to V <sub>h</sub> '	ğî bô 'tired of running' chê bô 'tired of living'
k. bû?	'to be immoderate; excessive; harsh; overstrong'	'to V <sub>h</sub> to satiety; to V <sub>h</sub> one's fill'	yî? bû? 'sleep one's fill' ğô bû? 'read enough to be satisfied'
l. mâ	'to be numerous'	1. 'to V <sub>h</sub> a lot' [2. 'many (people) V <sub>h</sub> ']	şî mâ 'know a lot' cô mâ 'have a lot' [lâ mâ 'many come' chu mâ 'many are fat']

This verb is of considerable interest:

- The meaning of versatile mâ depends on the class of verb-head. After transitive action verbs, mâ maximizes the object of the action. After intransitive action verbs or V<sub>adj</sub>'s, mâ indicates a multitudinous subject.
- The last remark seems to contradict our statement above that the medials concatenate only with non-adjectival V<sub>h</sub>'s. But in fact strings of intransitive V<sub>act</sub> + mâ and V<sub>adj</sub> + mâ are concatenations only on the surface. In the underlying structure the "V<sub>h</sub>" is actually the verb of a relative clause whose head has been deleted and which functions as a whole as the subject of the *main* verb mâ. Thus chu mâ 'many are fat' is derived from an underlying string like

chu ve và?		mâ	'the fat pigs are many;
N <sub>rh</sub>		V	there are many fat pigs',

where the  $P_{Univ}$  *ve* serves to link the relative clause *chu* 'fat' to the relative head *và?* 'pig'. Then the relative head is deleted by a transformation of quite general applicability,<sup>34</sup> to yield the string

*chu ve mâ* 'the fat ones are many',

which is grammatical as it stands. (It is never grammatical to insert *ve* between the  $V_h$  and a  $V_v$  in a true post-head concatenation). The *ve* is then optionally deleted by a further transformation.

3. The variable  $V_v$  *jâ*, as we shall see, is often roughly synonymous with *mâ*, but the two verbs have contrasting meanings in one environment (below 4.133. g).
4. The fact that *mâ* is homonymous with the negative adverb *mâ* 'not', which is diametrically opposed to it in meaning, makes all concatenations of  $V_h + mâ +$  caudal or variable  $V_v$  ambiguous. Such concatenations are therefore avoided in practice, but are theoretically possible if the context is clear enough:

- |    |           |           |           |                         |
|----|-----------|-----------|-----------|-------------------------|
| a) | <i>šĭ</i> | <i>mâ</i> | <i>pĭ</i> | 'is able to know a lot' |
|    | $V_h$     | $V_v$     | $V_v$     |                         |
| b) | <i>šĭ</i> | <i>mâ</i> | <i>pĭ</i> | 'is unable to know'     |
|    | $V_h$     | Adv       | $V_v$     |                         |

#### 4.122. *Non-adjectival medials.*

<i>Verb:</i>	<i>Meaning as <math>V_h</math>:</i>	<i>Meaning as <math>V_v</math>:</i>	<i>Examples:</i>
m. <i>yà?</i>	'to commit an offense; to be at fault'	'to $V_h$ by mistake; to offend by $V_h$ 'ing'	<i>qô?</i> <i>yà?</i> 'say the wrong thing' <i>dô</i> <i>yà?</i> 'misunderstand' <i>šĕ</i> <i>yà?</i> 'lead astray'
n. * <i>phĭ?</i>	id.	id.	<i>te</i> <i>phĭ?</i> 1. 'do by mistake' 2. 'offend by one's deeds'

The medial *yà?* is unrelated to the homophonous juxtacapital 'descend'.

*phĭ?* is a Shan borrowing of identical meaning.

o. <i>gĭ</i>	'to visit; to play'	'to $V_h$ for pleasure; $V_h$ for the fun of it'	<i>tô</i> <i>gĭ</i> 'walk around for pleasure' <i>mĭ</i> <i>gĭ</i> 'sit around sociably'
--------------	---------------------	--	---

<sup>34</sup> Cf. Matisoff, *op. cit.*, 6.23. "Relative Clauses", pp. 612 ff.

*Verb: Meaning as V<sub>h</sub>: Meaning as V<sub>v</sub>: Examples:*

- p. *tô* 'to walk; to roam around' 1. 'to go around V<sub>h</sub>'ing' *hò tô* 'go around crying'  
 2. 'to V<sub>h</sub> aimlessly' *phû? tô* 'go around looking for'  
 3. 'to V<sub>h</sub> for fun' *gî tô* 'go visiting around'

*tô* is often very similar in meaning to *gî*, but conveys more of a nuance of motion than the latter. It is not surprising that *tô* shows a special affinity for the pre-head versatile *ca*.

- q. \**hâ?* 'to dare' 'to dare to V<sub>h</sub>' *ji? hâ?* 'dare to move'  
*gî hâ?* 'dare to laugh'  
*pô? hâ?* 'dare to jump'
- r. \**tâ(n)* 'to be free, be at leisure' 'to have time to V<sub>h</sub>; be ready to V<sub>h</sub>' *câ tâ* 'have time to eat'  
*chî tâ* 'have time to wash'
- s. *mā* 'to teach' 'to show how to V<sub>h</sub>; V<sub>h</sub> for someone's edification' *thái mā* 'show how to plow'  
*gō mā* 'teach how to read'

#### 4.123. Resultative medials.

Three of the medials have meanings which are resultative in force: that is, they specify the consequence of the action of the V<sub>h</sub>. These medials may all occur after great numbers of V<sub>h</sub>'s, which leads us to distinguish them from the non-versatile resultative complements (above 2.4).<sup>35</sup>

*Verb: Meaning as V<sub>h</sub>: Meaning as V<sub>v</sub>: Examples:*

- t. *te* 'to put, place' 'to V<sub>h</sub> so it stays put; to V<sub>h</sub> something and leave it' *te te* 'set up permanently'  
*bà te* 'throw away for good'  
*thu te* 'chop down and leave (where it fell)'

Sequences of V<sub>h</sub> + *te* are very reminiscent of the Japanese -*TE OKU* construction.

<sup>35</sup> It is worth mentioning that a couple of the juxtacapitals also may have resultative force. Thus *tô?* 'to V<sub>h</sub> out', as in *gô tō?* 'pull out', really means '(to pull) so it comes out'. And *ce* 'to V<sub>h</sub> down', as in *bo? ce* 'shoot down', really means '(to shoot) so it falls down'.

<i>Verb:</i>	<i>Meaning as V<sub>h</sub>:</i>	<i>Meaning as V<sub>v</sub>:</i>	<i>Examples:</i>
u. chê?	'to break in two; snap in two'	'to V <sub>h</sub> utterly; V <sub>h</sub> to a definite conclusion'	câ chê? 'eat all up' hô chê? 'sell out; sell completely' yô chê? 'say everything there is to be said' vì chê? 1. 'buy outright (free and clear)' 2. 'buy out (so nothing remains to sell)'
v. cí	'to stick to, be fastened to; to pin-point, fix upon'	1. 'to V <sub>h</sub> so it becomes fixed' 2. 'to persist in V <sub>h</sub> 'ing'	thô? cí 'hook fast onto' bô? cí 'shoot home' cô-câ cí 'keep on trying' vô? cì 'persist in wearing'

In its second, non-resultative sense, cí is to be identified with the pre-head versatile cí (above 3.0 i). This is one of the very few cases of the same verb functioning as both a  $\sqrt{V}$  and a  $V_{\sqrt{}}$  with approximately the same meaning. (See the caudal *gã*, below).

#### 4.124. *Enlivening medials.*

There are two medials which serve merely to enliven the action of their VP, much like the pre-head versatile *gò*. However, while *gò* was the abstractest of the  $\sqrt{V}$ 's, and therefore always occurred first in any multiversatile  $\sqrt{C}$  in which it appeared, neither of these post-head enliveners (see their glosses, below) is as abstract as the members of the caudal or variable classes of  $V_{\sqrt{}}$ 's; they therefore precede the latter in multiversatile concatenations. This is good evidence for the fact that very few pre-head versatile are as abstract as the caudal and variable  $V_{\sqrt{}}$ 's.<sup>36</sup>

<i>Verb:</i>	<i>Meaning as V<sub>h</sub></i>	<i>Meaning as V<sub>v</sub></i>	<i>Examples:</i>
w. gè	'to be fast, quick'	ENLIVENER — implies a suddenness or abruptness of action	šì gè 'drop dead' pô? gè 'jump suddenly' pài gè 'fall over with a crash'
x. phê	'to set free; to launch, to issue forth'	ENLIVENER — imparts a driving, outward-thrusting violence to the action	tú phê 'set on fire' thê? phê 'kick out at' dô? phê 'strike out at' qhê? phê 'chip off with force'

<sup>36</sup> This point is of great importance when we consider fore-and-aft concatenations, below 6.0 *et seq.*



## a. phê?

As a  $V_h$ , phê? is used in identity statements with the meaning 'be' (as in "He *is* the headman"); in general statements relating to a prevailing state of affairs, i.e., 'be the case' (as in "That's the way things *are*"); or (often followed by the  $P_v$  la 'becoming') in statements of eventuation, happening, coming into being (as in 'I didn't think that would *happen*').

As a  $V_v$ , phê? is translatable variously as 'able to  $V_h$ ; can  $V_h$ ; may  $V_h$ ; is allowed to  $V_h$ '. The potentiality expressed by versatile phê? seems usually to have reference to factors which are beyond one's control: objective, independent, extrinsic circumstances, the permission of others, etc. Thus ti phê?, 'able to plant' would occur in contexts like 'enough rain to *be able to plant* the paddy'. qai phê? 'able to go' would fit such contexts as "His father said he *could go*". chê phê? 'able to stay' would be suitable in a context like "I *can't stay* because my husband is waiting for me".

## b. pí

In its relatively rare occurrences as a  $V_h$ , pí means 'be clever at, skillful at, good at (something)'. As a  $V_v$  it means 'to have the ability to  $V_h$ ; to be able to  $V_h$  well; to be good at  $V_h$ 'ing'. Thus ġo pí 'able to read' is appropriate in "Can you read, little boy?", while ġo phê? is required for "Can you read it in this light?" Similarly,

bô? pí 'able to shoot', in "The Lahu are good shots";  
vs. bô? phê? 'able to shoot' in "This gun is so dirty I can't shoot with it".

With  $V_h$ 's (either  $V_{act}$  or  $V_{adj}$ ) relating to human emotions or mental activities, pí forms concatenations that refer to innate qualities of character or personality:

khwé	'jealous'	:	khwé pí	'be a jealous sort'
hɛ	'tell a lie'	:	hɛ pí	'be deceitful'
yà?-to	'be ashamed'	:	mâ yà?-to pí	'be brazen, shameless'
hà?-qá	'take pity on'	:	hà?-qá pí	'be kind-hearted, compassionate'

## c. ġa

As a  $V_h$  ġa means 'get, obtain'. We have seen that as one of the abstract  $_vV$ 's it means variously 'to get to  $V_h$ , to have managed to  $V_h$ ' or 'must  $V_h$ '.<sup>38</sup> As a caudal  $V_v$ , ġa means 'able to  $V_h$ ' in the sense of 'having by dint of the expenditure of effort surmounted the difficulties which had

---

38 See especially footnote 15.

hindered the attainment of a state of ability'. 'Managed to  $V_h$ ' is the closest translation in most cases. Thus:

tâ? ġa 'manage to carry', as in "With just two people you won't  
be able to carry it back".

na ġa 'manage to understand', as in "I can only understand a little of  
the Red Lahu dialect".

The fact that ġa may be either a  $vV$  or a  $V_v$ , as well as a  $V_h$ , makes for severe ambiguities whenever it is followed by another verb that can be used versatilely. If, e.g., ġa precedes mð (which means 'to see' as a  $V_h$  and 'to have ever  $V_h$ 'ed' as a non-potential caudal  $V_v$ ), there are three possible interpretations of the sequence:

1. ġa mð 'to get to see; manage to see;  
 $vV$   $V_h$  must see; to find'
2. ġa mð 'to have ever gotten; to have ever obtained;  
 $V_h$   $V_v$  to have seen (someone) get something'
3. yù ġa mð 'to have ever been able to take;  
 $V_h$   $V_v$   $V_v$  to have ever managed to take'.

In 3, both ġa and mð are caudals following the  $V_h$  yù 'take'.

#### 4.132. *Mutual exclusiveness of the potential caudals.*

The three potential caudals are mutually exclusive, though any one of them may occur *before* the non-potential caudals.

"Mutual exclusiveness" is an important notion which, it seems to me, it is incumbent on a semantic theory to refine. Without being able to develop this here in a serious way, it appears that mutual exclusiveness is of two basic types: to put it baldly, things exclude each other either because they are *too similar*, or because they are *too disparate*.

The exclusive relationship obtaining among the potential caudals, like that among, say, the English modals, is of the former type. The potential caudals form a kind of system or paradigm, each of which has many semantic features in common with every other member, but which differ from one another in a structured way. The whole point of the language's maintaining several such similar entities is to impose an all-or-nothing choice on the speaker in any given situation.<sup>39</sup>

<sup>39</sup> This seems to be what is going on among the juxtacapitals as well. These all have the feature 'motion' or 'directionality' in common, though some pairs have additional



On the other hand, the mutual exclusion that prevails among the medials is largely due to the utter disparateness of their meanings: the meanings of, e.g., *mā* 'show how to  $V_h$ ', *tān* 'have time to  $V_h$ ', *gā* ' $V_h$  for pleasure', *kā* 'worthy of  $V_h$ 'ing', etc., do not differ from each other in a precise way. They are incommensurable. Some of the medials, however, do form antonymous pairs (*ša* 'easy', *hā* 'hard'; *lε* 'late', *šó* 'early', etc.), and are mutually exclusive on 'similarity' grounds.

#### 4.133. *The non-potential caudals.*

##### d. *cō*

As a  $V_h$  *cō* usually means 'to be correct, fitting, right; be harmonious, friendly, well-suited'. Occasionally it means 'to occur by chance; to happen to be the case'.<sup>40</sup>

As a caudal  $V_v$ , *cō* means, according to context, either 'ought to  $V_h$ , should  $V_h$ ', or else ' $V_h$  by chance, happen to  $V_h$ '.

- |               |                      |
|---------------|----------------------|
| <i>thō cō</i> | 1. 'ought to touch'  |
|               | 2. 'happen to touch' |
| <i>yù cō</i>  | 1. 'should take'     |
|               | 2. 'chance to take'  |

##### e. *mò*

As a  $V_h$  *mò* means 'to see'. As a caudal  $V_v$  it has a much abstracter meaning: to witness the action or state referred to by the  $V_h$ ; to have ever seen or heard of (someone's)  $V_h$ 'ing'. Note that in its versatile function, the range of *mò* is not limited to visual perception.

- |              |                                      |
|--------------|--------------------------------------|
| <i>kā mò</i> | 'to have ever heard'                 |
| <i>yù mò</i> | 1. 'to have ever taken'              |
|              | 2. 'to know (someone) to have taken' |

(There is a  $P_v$  *jō* of very similar 'experiential' meaning.)

##### f. *tà-ò*

As a  $V_h$  *tà* means 'to be enough'. It is very often followed by the  $P_v$  *ò* which indicates a change of state. (The very concept of being 'enough'

antonymous features: *kō* 'to  $V_h$  into'; *tō* 'to  $V_h$  out'. Antonymy is the extreme case of 'differing from one another in a structured way'.

<sup>40</sup> It seems this second meaning is an outgrowth of the first. Events have their 'chance to occur' when there is a 'fitting' or 'harmonious' or 'conducive' combination of circumstances to precipitate them. "That which is, is right", as it were.

implies to the Lahu that a former lack has been filled: a state of not-having has been changed to a state of having.)

As a caudal  $V_v$ ,  $t\grave{a}-\grave{o}$  means 'it is now time to  $V_h$ ; given the present circumstances, one had better  $V_h$ '.

$d\acute{o}$ - $ph\acute{u}$ ?  $t\grave{a}-\grave{o}$  'it's now time to repent'  
 $qai$   $t\grave{a}-\grave{o}$  'it's time to go now'  
 $vi$   $t\grave{a}-\grave{o}$  'now's the time we should buy it'

The meaning is rather different when negative  $m\acute{a}$  intervenes between the  $V_h$  and  $t\grave{a}-\grave{o}$ : 'be sick and tired of  $V_h$ 'ing':

$qai$   $m\acute{a}$   $t\grave{a}-\grave{o}$  'be sick to death of going'  
 $na$   $m\acute{a}$   $t\grave{a}-\grave{o}$  'be sick and tired of listening'

g.  $j\acute{a}$

As a  $V_h$   $j\acute{a}$  means 'to exceed, surpass, be exaggerated'. Much more frequently it serves as a caudal  $V_v$  with one or another of several related 'maximizing' meanings:

1) After transitive action verbs,  $j\acute{a}$  maximizes either the object of the action or the action itself:

$\xi_i$   $j\acute{a}$  'know very much'  
 $bi?$   $j\acute{a}$  'be very angry at'

2) After intransitive  $V_{act}$ 's  $j\acute{a}$  indicates a multitudinous subject:

$qai$   $j\acute{a}$  'many go; lots of people go'  
 $po$   $j\acute{a}$  'many are born'

So far the use of  $j\acute{a}$  exactly parallels that of the medial  $m\acute{a}$  (above 4.121. 1). But:

3)  $j\acute{a}$  contrasts with  $m\acute{a}$  after  $V_{adj}$ 's. In this environment  $j\acute{a}$  means 'very  $V_h$ ' or 'too  $V_h$ ', but  $m\acute{a}$  indicates a multitudinous subject:

$d\grave{a}?$   $j\acute{a}$  'very good'  
 $(d\grave{a}?$   $m\acute{a}$  'many are good')  
 $chu$   $j\acute{a}$  'very fat; too fat'  
 $(chu$   $m\acute{a}$  'many are fat')

The deep status of  $V_{adj} + j\acute{a}$  is different from that of  $V_{adj} + m\acute{a}$ , however. Whereas the latter is transformationally derived from  $V_{adj} + ve + N_{rh} + m\acute{a}$ , the former is a true versatile concatenation. It is ungrammatical to insert  $ve$  between a  $V_h$  and  $j\acute{a}$ .

4.134. *Sequences of caudals.*

The potential caudals precede the non-potential ones in multiversatile concatenations, thus:

phê?	cô
pí	mò
ġa	tà-ò
	jâ

Sequences of more than one caudal are quite rare in practice, however.

4.135. *Caudals after adjectival V<sub>h</sub>'s.*

It will be remembered that none of the juxtacapitals or medials may follow adjectival V<sub>h</sub>'s. Five of the seven caudals, on the other hand, may so occur: a tribute to their far greater abstractness.

chu phê?	'may (is allowed to be) fat'
dà? pí	'can (has the ability to) be good'
kâ? cô	1. 'ought to be cold'
	2. 'happens to be cold'
hò mò	'have ever been hot; have known it to be hot'
nù jâ	'very soft'

4.14. *Binary C<sub>v</sub>'s with variable versatiles.*

The variable V<sub>v</sub>'s are perhaps the most important of all the post-head versatiles. Their meanings are extremely abstract, conveying the sort of information which in other languages might be furnished by aspectual affixes. In the following list, the versatile meanings of these verbs are given to the right of the slash, while their meanings as V<sub>h</sub>'s appear to the left:

---

chê dwell/'continuative'	ni look at/'tentative'
cì send/'causative'	pò finish/'completive; exhaustive'
qai go/'continuative-inchoative'	pî give/'benefactive; permissio-causative'
mò be a long time/'durative'	lò? enough/'sufficitive'

---

Fig. 15. The aspectual nature of the variable V<sub>v</sub>'s.

Taking, for example, the V<sub>h</sub> vò? 'to put on (clothing); to wear', we may run down the list as follows:

vəʔ chê 'is wearing'	vəʔ ni 'wear and see; try on'
vəʔ ci 1. 'make (smn) wear'	vəʔ pə 1. 'has already put on'
2. 'let (smn) wear'	2. 'everybody wears'
vəʔ qai 'goes on wearing'	vəʔ pi 1. 'dress someone'
vəʔ mə 'has worn for a long time'	2. 'let someone wear'
	vəʔ ləʔ 'enough to wear'

It is an indication of the high degree of abstractness of the variable class that six of the eight members occur regularly after adjectival  $V_h$ 's:

chu chê 'is still fat'	chu pə 'are all fat'
chu ci 'cause to be fat; fatten'	chu pi 'make fat for (someone)'
chu qai 'become fat; get to be fat; get fatter and fatter'	chu ləʔ 'fat enough'

The chief interest of the variables lies, however, in the fact that they are permutable with other  $V_v$ 's in multiversatile  $C_v$ 's, with concomitant changes of meaning. This behavior will be discussed in detail below (5.1.). For now we simply observe that the variables do not constitute a mutually exclusive class (like the juxtacapitals, medials, or potential caudals). A given multiversatile  $C_v$  may be simultaneously marked for several of the 'aspectual' categories, thus:

ʃiʔ	bà	ci	pi	chê
$V_h$	$V_{v-juxt}$	$V_{var}$	$V_{var}$	$V_{var}$
wipe	away	(causat.)	(benef.)	(contin.)
'is making (them) wipe (it) away for (him)' <sup>41</sup>				

#### 4.2. Ambiguous concatenations revisited.

We are now in a position to account in a general way for the type of ambiguous binary concatenation alluded to in the Introduction (1.0).<sup>42</sup>

In all such cases, *the first of the two verbs is a  $vV$ , while the second is a  $V_v$* . Two interpretations are thus always possible in principle: either the first verb is the  $V_h$  and the second is a  $V_v$ , or the first is a  $vV$  and the second is the  $V_h$ . To return to our original examples:

<sup>41</sup> " $V_{var}$ " is a convenient abbreviation for " $V_{v-var}$ ": 'variable post-head versatile'.

<sup>42</sup> The explanation has of course been adumbrated in the discussion of the sequence  $\check{g}a\ m\check{o}$  (4.1.3.1. c, above).

---

lò chê 'beg to be there'	:	lò chê 'is begging'
$\nu$ V V <sub>h</sub>		V <sub>h</sub> V <sub>v</sub>
ġa kî 'must be busy'	:	ġa kî 'is busy getting'
$\nu$ V V <sub>h</sub>		V <sub>h</sub> V <sub>v</sub>
tā ša 'begin to be easy'	:	tā ša 'easy to begin'
$\nu$ V V <sub>h</sub>		V <sub>h</sub> V <sub>v</sub>
ga cî 'help to send'	:	ga cî 'cause to help'
$\nu$ V V <sub>h</sub>		V <sub>h</sub> V <sub>v</sub>

---

Fig. 16. Ambiguous  $\nu$ V-V<sub>v</sub> concatenations.

### 5.0. Multiversatile post-head concatenations.

The most jejune sort of rule one could write to generate multiversatile C<sub>v</sub>'s would look something like this:

“Rule J”:

$$\beta \rightarrow V_h + \text{Jux}_o^1 + \text{Var}_o + \text{Med}_o^1 + \text{Var}_o + \text{Caud}_o^2 + \text{Var}_o$$

That is, the verbal nucleus, beta, may be expanded to include, besides the verb-head, up to one juxtacapital, up to one medial, and up to two caudals, in that order, as well as zero or more variables at any post-juxtacapital point in the concatenation.

But even if a simple rewrite rule of this type could be refined to specify the exceedingly complex selectional restrictions obtaining among the individual members of the concatenated classes, it would still be totally inadequate to characterize the way in which multiversatile C<sub>v</sub>'s are understood: for it fails to assign the sort of leftward-embedded structure which is involved. There is in fact abundant evidence that the structure of C<sub>v</sub>'s is the mirror-image of that of  $\nu$ C's. That is, *in a post-head concatenation all the verbs to the left of a given verb serve as the latter's V<sub>h</sub>*.

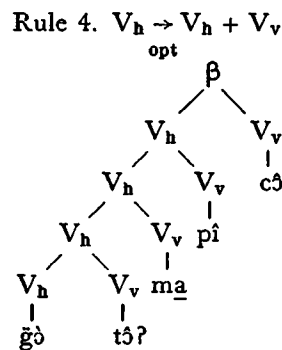
Consider the following concatenation, which might be used to describe the obligations of a school of dentistry toward its students:

cî		ġò	tî?	mā	pî	cò
NP		V <sub>h</sub>	V <sub>v-juxt</sub>	V <sub>v-med</sub>	V <sub>var</sub>	V <sub>v-caud</sub>
teeth		pull	out	show-how	(benef.)	ought

“(They) ought to show them how to pull out teeth.” The head of cò ‘ought’ is the whole string ġò tî? mā pî: ‘ought to—show for-their-benefit how to pull (them) out’. The head of pî ‘benefactive’ is ġò tî? mā: the

whole act of 'showing how to pull out' is performed 'for someone's benefit'. The head of *ma* 'teach how' is *gò tš?* 'pull out'. The head of *tš?* 'out' is *gò* 'pull'.

The following rule is still most crude—it does not, among its other defects, specify the subcategorizational or selectional restrictions on the recursive embedding in *C<sub>v</sub>*'s—but it does at least convey the hierarchy of head-modifier relationships correctly:



5.1. *Demonstration of leftward-headedness: permutations of variable versatiles in multiversatile C<sub>v</sub>'s.*

The nature of the hierarchical structure of multiversatile *C<sub>v</sub>*'s is thrown into sharp relief by the behavior of the variable *V<sub>v</sub>*'s. Permuting a variable with a neighboring *V<sub>v</sub>* automatically imposes a different logic of relative headedness on a *C<sub>v</sub>*; that is, it entails a new semantic interpretation that differs in a predictable way from the former one.

We proceed to offer examples of this phenomenon in connection with each of the eight variables in turn:

- a. *chê* As *V<sub>h</sub>*: 'to be in a place; to live, dwell'  
 As *V<sub>var</sub>*: 'be in the act or state of *V<sub>h</sub>*'ing; be still *V<sub>h</sub>*'ing' (CONTINUATIVE)  
*câ phê? chê* 'is still able to eat'  
*V<sub>h</sub> V<sub>caud</sub> V<sub>var</sub>* (i.e., his ability to eat is ongoing)  
*câ chê phê?* 'is able to eat still'  
*V<sub>h</sub> V<sub>var</sub> V<sub>caud</sub>* (i.e., he is able to go on eating)
- b. *ci* As *V<sub>h</sub>* : 'to send (on a mission, etc.)'  
 As *V<sub>var</sub>*: 'make someone *V<sub>h</sub>*; let someone *V<sub>h</sub>*'  
 (COERCIVE- OR PERMISSIVE- CAUSATIVE)

câ phê? ci 'make (someone) able to eat'  
 V<sub>h</sub> V<sub>caud</sub> V<sub>var</sub>  
 câ ci phê? 'able to make (someone) eat'  
 V<sub>h</sub> V<sub>var</sub> V<sub>caud</sub>

- c. qai As V<sub>h</sub> : 'to go'  
 As V<sub>var</sub>: 1. After V<sub>act</sub>—'go on V<sub>h</sub>'ing' (CONTINUATIVE)  
 2. After V<sub>adj</sub>—'become V<sub>h</sub>' (INGHOATIVE)  
 ġo ša qai 'become easy to read'  
 V<sub>h</sub> V<sub>med</sub> V<sub>var</sub>  
 ġo qai ša 'easy to continue reading'  
 V<sub>h</sub> V<sub>var</sub> V<sub>med</sub>
- d. mo As V<sub>h</sub> : 'to be a long time; to last a long time'  
 As V<sub>var</sub>: 'to V<sub>h</sub> for a long time' (DURATIVE)  
 qa-mì pí mo 'have been able to sing for a long time'  
 V<sub>h</sub> V<sub>caud</sub> V<sub>var</sub> (i.e., this ability was acquired long ago)  
 qa-mì mo pí 'can sing for a long time'  
 V<sub>h</sub> V<sub>var</sub> V<sub>caud</sub> (i.e., have a high cantatory endurance)
- e. ni As V<sub>h</sub> : 'to look at'  
 As V<sub>var</sub>: 'to V<sub>h</sub> and see; to try V<sub>h</sub>'ing; to V<sub>h</sub> up the flagpole  
 and see who salutes' (TENTATIVE)  
 là lɛ ni 'try coming late; come late and see what happens'  
 V<sub>h</sub> V<sub>med</sub> V<sub>var</sub>  
 là ni lɛ 'be late in trying to come'  
 V<sub>h</sub> V<sub>var</sub> V<sub>med</sub>
- f. pə As V<sub>h</sub> : 'to finish; to be complete'  
 As V<sub>var</sub>: When it occurs early in a multiversatile C<sub>v</sub>, pə usually  
 means 'to V<sub>h</sub> completely, to finish V<sub>h</sub>'ing, to V<sub>h</sub> irrevocably',  
 or simply indicates that the action of the V<sub>h</sub> took place at a definite  
 time in the past and is now completed. (COMPLETIVE)  
 When it occurs after other V<sub>v</sub>'s, pə may alternatively be used to  
 indicate completeness on the *subject's* part, not the predicate's:  
 'everyone V<sub>h</sub>'s; the performers of V<sub>h</sub> constitute a complete group;  
 the entities that are in the state of V<sub>h</sub> form a complete group'.  
 (EXHAUSTIVE)

- câ c<sup>5</sup> p<sup>ə</sup> 'everyone ought to eat'  
V<sub>h</sub> V<sub>caud</sub> V<sub>var</sub>
- câ p<sup>ə</sup> c<sup>5</sup> 'ought to finish eating'  
V<sub>h</sub> V<sub>var</sub> V<sub>caud</sub>
- g. pî As V<sub>h</sub> : 'to give'  
As V<sub>var</sub>: 1. 'to V<sub>h</sub> for (someone); to affect someone by the  
action of V<sub>h</sub>' (BENEFACTIVE).<sup>43</sup>  
2. 'to let (a third person) V<sub>h</sub>' (PERMISSO-CAUSATIVE).  
3. 'to V<sub>h</sub> forth, V<sub>h</sub> forward'
- kə m<sub>a</sub> pî 'show someone how to put (it) in'  
V<sub>h</sub> V<sub>med</sub> V<sub>var</sub>
- kə pî m<sub>a</sub> 'show how one goes-about-putting-(it)-in-for-  
V<sub>h</sub> V<sub>var</sub> V<sub>med</sub> someone's-benefit'
- h. ləp As V<sub>h</sub> : 'be enough'  
As V<sub>var</sub>: 1. 'enough to V<sub>h</sub>' (SUFFICITIVE)  
2. 'worthy of V<sub>h</sub>'ing'
- câ ġa ləp 'enough to be able to eat'  
V<sub>h</sub> V<sub>caud</sub> V<sub>var</sub>
- câ ləp ġa 'manage to eat enough'  
V<sub>h</sub> V<sub>var</sub> V<sub>caud</sub>

6.0. *Fore-and-aft concatenations* (<sub>v</sub>C<sub>v</sub>'s): *determining their hierarchical structure.*

The most complex and interesting of all concatenations are those of the 'fore-and-aft' variety, where versatile verbs appear on both sides of the V<sub>h</sub>. These <sub>v</sub>C<sub>v</sub>'s are 'generable' (if we may use the word for anything so obviously oversimplified and schematic) by Rules 5 and 6, which are easily seen to be generalizations of our Rules 1 and 3, and 2 and 4, respectively.

Rule 5.  $\beta \rightarrow (\sub{v}V) + V_h + (V_v)$

Rule 6.  $V_h \rightarrow (\sub{v}V) + V_h + (V_v)$ ,  
<sub>opt</sub>

where at least one term in parentheses is selected.

<sup>43</sup> Lahu, like Japanese, compensates for the frequent omission of subject pronouns by being careful to specify the direction of the action of the verb by morphemes within the VP. Action of the 1st or 2nd person affecting the 3rd person, or 3rd person affecting another 3rd person, is specified by pî. Otherwise the P<sub>v</sub> lâ is used. This is an interesting example of functional parallelism between elements from different form-classes.

For a more extended treatment see Matisoff, *op. cit.*, Ch. IV, (section 4.729). "Benefactive" is intended in the very general sense of affecting someone"; the action in question may be highly unpleasant for the "beneficiary".



But we are here faced with a problem of interpretation that had not arisen until now. In the case of a pure  $\nu C$  or a pure  $C\nu$ , there is never any doubt about the hierarchy of head-modifier relationships: the head of a given verb in the string is the  $V_h$  plus any (possibly zero) verbs intervening between itself and the  $V_h$ . In a fore-and-aft concatenation, on the other hand, we shall show that there is no automatic, syntactic algorithm for determining the head- or modifier-status of the pre-head and post-head versatiles *relative to each other*: or, as we may say for short, for determining the *transcapital relationships* of  $\nu C\nu$ 's.

For a start, let us consider the following two  $\nu C\nu$ 's, on whose semantic interpretation every Lahu would agree:

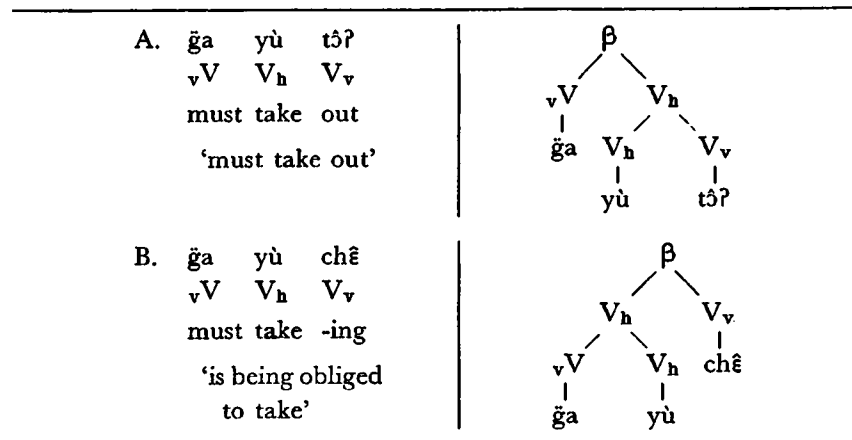


Fig. 17. Contrasting transcapital relationships.

In  $\check{g}a\ y\grave{u}\ t\acute{o}?$  ‘must take out’, the ‘must’ is clearly the modifier, and ‘take out’ is the head. The alternative interpretation (that ‘out’ modifies ‘must take’ as a unit) is absurd. The sort of transcapital relationship typified by Ex. A, wherein it is a  $\nu V$  which is set off against all the rest of the concatenation, we term *pre-primacy*.

In  $\check{g}a\ y\grave{u}\ ch\acute{e}$  ‘is being obliged to take’, the converse transcapital relationship of *post-primacy* obtains: that is, it is a  $V_\nu$ ,  $ch\acute{e}$  ‘continuative’, which is set off against the rest of the concatenation as a whole. It is the state of having-to-take that is of extended duration; it is not a case of ‘having to remain-in-the-act-of-taking’.

A first hypothesis to explain what is going on here would invoke the difference in the subclasses to which the  $V_\nu$ 's in the two examples belong. Thus  $t\acute{o}?$  ‘out’ is a member of the highly concrete juxtacapital class, while

chê ‘-ing’ is a highly abstract variable  $V_v$ . Applying our principle that ‘the abstract modifies, the concrete is modified’, one might try to define an invariant procedure for assigning structural descriptions to  ${}_vC_v$ ’s:

- a.) Compare the subclasses to which the  ${}_vV$  and the  $V_v$  belong;<sup>44</sup>
- b.) assign ‘primacy’ to (i.e., ‘make the first cut next to’) the versatile verb which belongs to the abstracter subclass.

This is still very crude, but such an approach does assign correct structure to many  ${}_vC_v$ ’s of even greater complexity. Consider the following example:

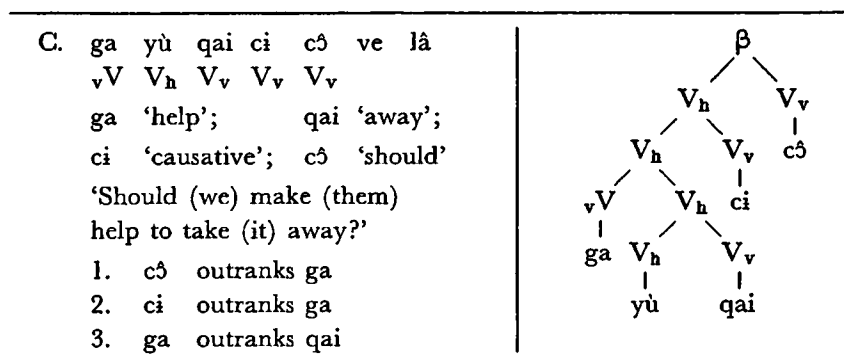


Fig. 18. Assigning structure to more complex  ${}_vC_v$ ’s.

In this concatenation there is more than one versatile verb on one side of the head. But we know that it is the outermost verb on a particular side of the  $V_h$  that has primacy over all more inner verbs on the same side. We therefore amend our above hierarchy-determining procedure as follows:

- i) Compare the subclasses to which the *outermost*  ${}_vV$  and the *outermost*  $V_v$  belong;
- ii) assign primacy to the versatile verb that belongs to the abstracter subclass;
- iii) if, after this first cut, the remainder of the string should still be a  ${}_vC_v$ , proceed to compare *its* outermost  ${}_vV$  with its outermost  $V_v$  and assign primacy to the one which belongs to the abstracter subclass;
- iv) repeat until all the versatile verbs are on one side of the  $V_h$ .

The concatenation in Ex. C is understood as meaning ‘Should (we)—make (them) help to take (it) away?’, not \*‘Do (we) help to—make

<sup>44</sup> We are confining ourselves for the moment to  ${}_vC_v$ ’s with only a single  ${}_vV$  and  $V_v$ .

(them) ought to take (it) away'.<sup>45</sup> That is, if we are to capture the way the Lahu understand this sentence, we must make the first cut before *c̥* 'should', not after *ga* 'help'. It would seem that the caudal  $V_v$ 's, to which *c̥* belongs, are abstracter *as a class* than the Specific  $\nu V$ 's, of which *ga* is a member. We proceed to examine the remainder of the concatenation: *ga yù qai cì* is understood as meaning 'make (them)—help to take (it) away', not '\*help to—make (them) take (it) away'.<sup>45</sup> Thus the variable  $V_v$  *cì* also outranks the specific  $\nu V$  *ga*. But once *c̥* and *cì* have been segmented off, *ga* comes into its own: *ga yù qai* 'help to take away', is certainly to be analyzed as 'help to—take away', not '\*help to take—away'. The specific  $\nu V$ 's (like *ga*) clearly outrank juxtacapital  $V_v$ 's (like *qai*) in abstractness.

If this were all there was to it, there would be no problem in assigning structural descriptions to  $\nu C_v$ 's, and there would really be no need to operate with notions like relative abstractness at all. The whole question could be resolved on the basis of the syntactic strict subcategorization of the versatile verbs. Each subclass would be ranked on a 'primacy scale', perhaps something like this:

Caudals and Variables ( $V_v$ )	+5
Aspectuals ( $\nu V$ )	+4
Specifics ( $\nu V$ )	+3
Medials ( $V_v$ )	+2
Juxtacapitals ( $V_v$ )	+1

These rankings would be arrived at empirically through a study of how  $\nu C_v$ 's are actually understood. They would have merely a syntactic significance, though of course it would be possible to 'rationalize' the rankings by invoking some sort of correlation between the rank of a subclass and certain features of the 'semantic interpretations' of its members.

Attractive as it might seem, however, this 'monolithic subclass' approach cannot begin to do justice to the enormous complexity of the transcaptial relationships in  $\nu C_v$ 's.

### 6.1. *Types of transcaptial relationships.*<sup>46</sup>

Transcaptial pairs (i.e., pairs of verbs one of which is a  $\nu V$  and the other a  $V_v$ ) may stand in any one of five relationships to each other: pre-

<sup>45</sup> Ideas like this are certainly expressible in Lahu, but not via a pure concatenation.

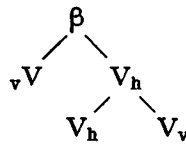
Some sort of recasting of the sentence would be required. See above 3.13.

<sup>46</sup> See footnote 44.

primacy, post-primacy, co-ordination, ambi-primacy, and mutual exclusion.<sup>47</sup> The approach of 6.0 is adequate to deal with only a subset of the pairs of the first two types.

6.12. *Pre-primacy.*

The pre-primacy relationship is typified by Example A in 6.0, *ḡa yù tṡ?* 'must take out'. A  $\surd C_v$  where this relationship obtains has the structure:

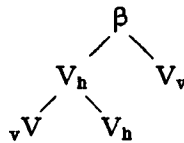


We may symbolize pre-primacy by a decrescendo sign with the  $\surd V$  on the left, thus:  $\surd V > V_v$ , or in particular, e.g., *ḡa > tṡ?*

In a certain number of the most straightforward and clearcut cases, it is almost possible to assign pre-primacy simply on the basis of the subclasses to which the versatile verbs belong, as suggested in 6.0. Thus *any*  $\surd V$ , whether aspectual or specific, will almost always outrank *any* medial or (*a fortiori*) *any* juxtacapital. Yet even here there are instances where the converse is true. The specific  $\surd V$  *lò* 'beg', for example, is outranked by the medial  $V_v$  *khò?* 'tiresome' (see below 6.2).

6.13. *Post-primacy.*

Post-primacy, typified by Example B in 6.0, *ḡa yù chê* 'is being obliged to take', is associated with the following structure:



This relationship may be symbolized by a crescendo sign with the  $\surd V$  on the left, thus:  $\surd V < V_v$ , or in particular, e.g., *ḡa < chê*.

In some cases it is almost always possible to assign post-primacy according to the approach of 6.0: *any* caudal or variable  $V_v$  is virtually certain to outrank *any*  $\surd V$  of the specific class.

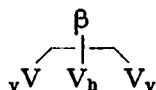
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<sup>47</sup> Rough analogues of each of these relationships are readily found in English constructions: (1) Pre-primacy: un|like-ly. (2) Post-primacy: gentle-man|ly. (3) Co-ordination: re|discover|y. (4) Ambi-primacy: Old French | teacher ~ old | French teacher.

But a host of complications arise, as we shall see, when it is an *aspectual*  $\nu V$  ( $\bar{g}a$ ,  $q\dot{o}?$ ,  $ta$ ) that confronts a *caudal* or *variable*  $V_\nu$  across the same  $V_h$ .

#### 6.14. Co-ordinateness.

Our Rule 5 (6.0 above) provides for the possibility of a three-way co-ordinate branching from the verbal nucleus node in  $\nu C_V$ 's:



Concatenations with structures like this do indeed occur,<sup>48</sup> and this fact alone renders the approach of 6.0, whereby each syntactic subclass of versatile verb is assigned a *different* rank *en bloc*, inadequate in principle.

A pair of transcaptal verbs is judged to be *co-ordinate* in a given concatenation when (1) there is no perceptible difference in the meaning (as determined by a consensus of native speakers—but see below 6.142.) regardless of which of the versatile verbs is deemed to modify the other two verbs in the string, or (2) when it does not even make sense to pose this question, since the pair as a whole functions as a single verb.

We symbolize transcaptal co-ordinateness by a double-headed arrow, thus:  $\nu V \leftrightarrow V_\nu$ , or in particular, e.g.,  $ca \leftrightarrow qai$ .

Let us consider the two types of transcaptal co-ordination in turn:

##### 6.141. Co-ordination I: transcaptal 'long components'.

We have already observed in passing (4.11. e) that certain  $\nu V$ 's have selectional affinities for certain  $V_\nu$ 's. These affinities are the consequence of a large number of shared semantic features. For example:

a) The specific  $\nu V$  of motion,  $ca$  'go and  $V_h$ ' is found very often as the transcaptal partner of juxtacapital  $V_\nu$ 's of motion like  $qai$  'go' and  $la$  'come', or of a few medial  $V_\nu$ 's that refer to motion or the results of motion, like  $t\acute{o}$  'go around for pleasure' and  $g\acute{i}$  'quasi idem':

$ca$   $h\acute{o}$   $qai$  'go (off) and sell'  
 $ca$   $c\acute{a}$   $t\acute{o}$  'go around munching'

b) The specific  $\nu V$   $c\acute{i}$  ' $V_h$  incessantly' is a frequent partner of the variable  $V_\nu$   $ch\acute{e}$  'continuative':

$c\acute{i}$   $h\acute{o}$   $ch\acute{e}$  'is keeping on crying'

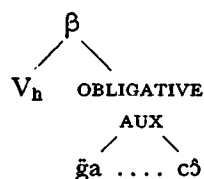
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<sup>48</sup> If Rule 5 and this last diagram were more accurate, they would of course indicate that the two versatile verbs, though co-ordinate with *each other*, are both *subordinate* to the  $V_h$ .

c) The aspectual  $\sqrt{V}$   $\bar{g}a$  'must' frequently occurs in the same concatenation with the caudal  $V_v$   $c\dot{s}$  'ought, should':

$\bar{g}a$   $v\grave{i}$   $c\dot{s}$  'ought to buy'

In cases like these there is really no question of relative ranking, since there are grounds for maintaining that there is only *one* underlying versatile verb anyway:



6.142. *Co-ordination II: equivalent interpretations of  $\sqrt{C_v}$ 's.*

The more interesting and crucial type of co-ordination involves transcapital pairs that do not necessarily share any semantic features in common, but whose meanings are such that no matter which hierarchical structure is assigned to their  $\sqrt{C_v}$ , there is no appreciable difference as far as the native Lahu speaker is concerned.

This sort of relationship obtains with particular frequency between aspectual  $\sqrt{V}$ 's and caudal or variable  $V_v$ 's. As a classic example we may take the concatenation  $q\dot{o}?$   $te$   $ci$  'make (someone) do (it) again', containing the  $\sqrt{V}$   $q\dot{o}?$  ' $V_h$  again', the  $V_h$   $te$  'do', and the causative  $V_v$   $ci$ . From the English point of view it makes a difference whether one says 'make him — do it again' as opposed to 'again — make him do it'. In the first case only a single act of coercion is involved: on the previous occasions he may have done it of his own free will. In the second case, the act of coercion is repeated.<sup>49</sup> A Lahu, however, finds such a distinction quite far-fetched. He uses the same transcapital pair  $q\dot{o}?$   $\dots$   $ci$  whether he is speaking of (a) a boy repeatedly hitting a buffalo with a stick to make him pull a plow, or of (b) a boy administering a single stroke of the stick in order to make the buffalo pull the same plow he has already pulled before. This is not to say that  $q\dot{o}?$   $\dots$   $ci$  concatenations are *ambiguous* to the Lahu (in the sense of 6.15.). Rather they are *indeterminate* or *unspecified* with respect to any hierarchical ordering of the components 'repetition' and 'causation'. Needless to say, if it is absolutely desired to convey such an

49 'Again make him do it' has this unambiguous meaning in English. The Lahu construction is somewhat more similar to English 'make him do it again', where the 'again' may be taken, I would say, as modifying either 'make' or 'do'.

ordering of these concepts, this may be achieved by recasting the sentence so that the concepts are no longer embodied in a single verb-concatenation.

Other (aspectual)  $\downarrow V \leftrightarrow$  (caudal/variable)  $V_{\downarrow}$  pairs include:  $q\dot{o}p \leftrightarrow ni$ ;  $q\dot{o}p \leftrightarrow ch\acute{e}$ ;  $q\dot{o}p \leftrightarrow m\acute{o}$ ;  $q\dot{o}p \leftrightarrow c\acute{o}$ ;  $q\dot{o}p \leftrightarrow ph\acute{e}p$ ;  $q\dot{o}p \leftrightarrow p\acute{i}$ ;  $q\dot{o}p \leftrightarrow \acute{g}a$ ;  $\acute{g}a \leftrightarrow j\acute{a}$ ;  $\acute{g}a \leftrightarrow ph\acute{e}p$ ;  $\acute{g}a \leftrightarrow p\acute{i}$ , etc.

As a final example, consider the pair  $q\dot{o}p$  'again' . . .  $ni$  'tentative;  $V_h$  and see, try  $V_h$ 'ing'. A concatenation like  $q\dot{o}p h\acute{o} ni$  translates both the English 'again — try selling' (where the seller may never yet have succeeded in selling anything), or 'try selling — again' (where perhaps the seller, flushed by his former success, is about to have another try at it).

#### 6.15. *Ambi-primacy: alternative interpretations of $\downarrow C_{\downarrow}$ 's.*

So far we have been discussing  $\downarrow C_{\downarrow}$ 's with but a single structural description — and these are in the vast majority. Occasionally, however, a Lahu will admit that one and the same  $\downarrow V_{\downarrow}$  is susceptible of two different meaningful interpretations. A transcaptial pair of verbs that give rise to a situation of this kind are said to stand in a relationship of *ambi-primacy* to one another. When two verbs stand in ambi-primacy, (1) it makes sense to set either one of them off against the rest of the concatenation as modifier to head; and (2) each of the alternative structures is associated with a distinct and unforced semantic interpretation.

Ambi-prime pairs determine either of the structures diagrammed in 6.12 and 6.13, and may be symbolized by a double two-headed arrow between the elements, thus:

$$\downarrow V \leftrightarrow V_{\downarrow}$$

As a typical  $\downarrow V \leftrightarrow V_{\downarrow}$  pair we may take the aspectual  $\downarrow V$   $t\acute{a}$  'begin' and the variable  $V_{\downarrow}$   $c\acute{i}$  'causative'. The concatenation  $t\acute{a} y\acute{o} c\acute{i}$  may mean, according to context, *either* 'begin to — make (him) talk' or 'make (him) — begin to talk'. When confronted with the fact of this ambiguity, a Lahu will be surprised at first, but will soon agree "it means sometimes this, and sometimes that".

Ambi-primacy is the rarest type of transcaptial relationship, and there are many cases where the dividing line between ambi-primacy and coordination is very hard to draw.

#### 6.151. *Compounding of ambiguity due to polysemy of one member of a transcaptial pair.*

Transcaptial relationships are sensitive to the particular shade of meaning of polysemous versatiles. For example, the aspectual  $\downarrow V$   $\acute{g}a$  means either

'must  $V_h$ ' or 'get to  $V_h$ , manage to  $V_h$ '. When the transcaptal partner of  $\bar{g}a$  is, e.g., the causative  $V_v ci$ , the structure of the  ${}_vC_v$  is a function of the particular meaning of  $\bar{g}a$  in a given instance. Thus (a) when  $\bar{g}a$  means 'must  $V_h$ ',  $\bar{g}a \Leftrightarrow ci$ :  $\bar{g}a p\bar{u} ci$  may mean either 'must — make (him) carry' (pre-primacy), or 'make (him) — have to carry' (post-primacy). The transcaptal relationship is one of ambiprimacy. (b) If, on the other hand,  $\bar{g}a$  means 'manage to  $V_h$ ',  $\bar{g}a > ci$ : the concatenation can only mean 'manage to — make (him) carry', not \*'make (him) — manage to carry'. The transcaptal relationship is one of simple pre-primacy.

#### 6.16. *Mutual exclusion.*

An extreme sort of transcaptal relationship is mutual exclusion, symbolized by a thrice-crossed line:  ${}_vV \frac{///}{///} V_v$ . This phenomenon is more appropriately discussed in connection with the whole network of selectional constraints on concatenations. For now we simply remark that categorical exclusions between particular  ${}_vV$ 's and  $V_v$ 's are relatively rare when there is only one versatile verb on each side of the  $V_h$ . But such constraints do exist:  ${}_vV \bar{g}a$  'get to  $V_h$ ; must  $V_h$ '  $\frac{///}{///} V_v \bar{g}a$  'able to  $V_h$ ';  ${}_vV ci$  ' $V_h$  incessantly'  $\frac{///}{///} V_v t\bar{a}n$  'have time to  $V_h$ ', etc.

#### 6.2. *Recapitulation: syntactic subclass and transcaptal behavior.*

We have seen that there is no simple correlation between a verb's membership in a given syntactic subclass of versatiles and the relationship it has with a particular transcaptal verb. Especially in the case of  ${}_vC_v$ 's with both aspectual  ${}_vV$ 's and caudal/variable  $V_v$ 's, a given member of a syntactic subclass may turn out to stand in any of five relationships with one or another of the various members of a particular transcaptal subclass.

Members of the less abstract subclasses (the specific  ${}_vV$ 's and the juxta-capital and medial  $V_v$ 's) have more predictable transcaptal relationships. Yet even here it is sometimes not possible to assign hierarchical structure in a way that is not sensitive to the semantic features of individual versatile verbs. The following is a striking example:

In general, the specific  ${}_vV$ 's outrank (have primacy over) the medial  $V_v$ 's. This is the case with the  ${}_vV l\bar{o}$  'ask to  $V_h$ ' and the medial  $V_v b\bar{u}?$  'to  $V_h$  to satiety'. Thus  $l\bar{o} c\bar{a} b\bar{u}?$  means 'ask to — get enough to eat':  $l\bar{o} > b\bar{u}?$  in accordance with this general tendency to pre-primacy. On the other hand, when one selects another medial  $V_v kh\bar{o}?$  'be wearisome to  $V_h$ ', as the transcaptal partner of  $l\bar{o}$ , the relationship is completely opposite.



lò câ khò? can only mean 'be wearisome to — ask to eat', not \*'ask to — be wearisome to eat'. lò < khò?, and the relationship is one of post-primacy. It is hard to see how this can be explained without recognizing that it is the relationships among the semantic features of individual transcapital pairs which actually determine the syntactic properties of  $\sqrt{C_V}$ 's.

### 6.3. *Selectional constraints and overall concatenation-length.*

Semantics rears its head even before the generative semantic component is called upon to assign hierarchical structure to concatenations. An elaborate system of selectional constraints must be built into the grammar in order to avoid the generation of concatenations that are uninterpretable. These selectional rules may be conceived of as operating both within the inventory of versatile verbs and, perhaps more importantly, between particular  $V_h$ 's and particular versatile verbs or particular combinations of versatile verbs.

It turns out empirically that the only concatenations to survive the filtering or winnowing effect of these rules are those within a certain quite narrow range. The maximum of versatile verbs in a given concatenation is about four: either four  $\sqrt{V}$ 's, or four  $V_{\sqrt{}}$ 's, or two of each, or one of one type and three of the other. With more than this number the piling-up of semantic marks is so overwhelming that there are no  $V_h$ 's whose own semantic features are compatible with the aggregate.

The output of selectionally permissible concatenations is then consigned to the appropriate syntactic and semantic components for their linear ordering and the assignment of their hierarchical structure.<sup>50</sup>

### 6.4. *Conclusion: the syntax and semantics of 'simple' juxtaposition.*

The interpretation of concatenations, and especially of  $\sqrt{C_V}$ 's, is a very subtle matter, at which the non-native speaker finds himself at a distinct disadvantage, to say the least. The Lahu are not yet used to metalinguistic discussion, and the elucidation of marginal, aberrant, or ambiguous concatenations is a slow and painful process. Nevertheless, whatever room there may be for disagreement in the interpretation of particular strings (e.g., 'is such-and-such a  $\sqrt{C_V}$  co-ordinate or truly ambiguous?'), our main point still stands: it is the ensemble of the inherent semantic features of individual

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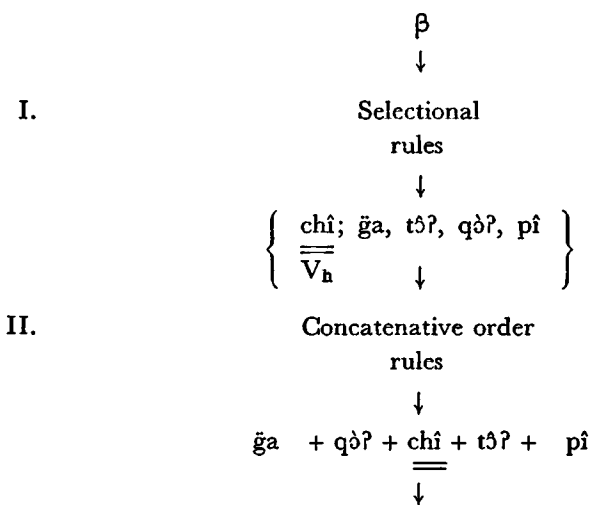
<sup>50</sup> The crudity and vagueness of the present conception of the interrelationship among the selectional, generative semantic, and syntactic components needs no emphasis, and perhaps no apology either, considering the enormous difficulty of the question. See the charts in the next section.

versatile verbs that ultimately determines the structural descriptions of concatenations.

The notion of relative abstractness is useful and important to our argument, but it alone is insufficient to account for all the facts in anything but a rough, suggestive way. In the absence of a language-independent abstractness metric, and in view of the fact that versatile verbs of (as far as we can see) equal degrees of abstractness may differ in their concatenative properties, we must take refuge in the more inclusive notion of 'the ensemble of inherent semantic features'.

The point of view adopted in this paper requires a reinterpretation of the P-markers used to symbolize the structure of concatenations. Our versatile verbs are not some sort of secondary appendages that are merely plugged into appropriate slots in ready-made deep syntactic P-markers. Rather, it is the (selectionally permissible) combination of verbs which the speaker chooses from the lexicon in a given instance which actually generates the appropriate P-marker for the concatenation. We conclude with two examples of a new type of structural diagram that better reflects the relationship between the semantics and the syntax of Lahu verb concatenations.

- A.  $\bar{g}a$   $q\acute{o}?$   $ch\acute{i}$   $t\acute{s}?$   $p\acute{i}$   
 $\underset{v}{V}$   $\underset{v}{V}$   $V_h$   $V_v$   $V_v$   
 must again lift out (benef.)  
 'must lift it out again for (someone)'







$$\begin{array}{c}
 \text{b.} \qquad \text{ca} \leftrightarrow \text{qai} \\
 \text{ca} \leftarrow \text{AUX} \rightarrow \text{qai} \\
 \left\{ \begin{array}{c} \text{h}\hat{\text{o}} \\ \hline \text{V}_h \end{array} \right\}
 \end{array}$$

Once the verbs are assigned a linear order (II),  $q\hat{o}?$  and  $ci$  are compared in rank, and found to be co-ordinate. They are thus simultaneously set off from the residue  $ca \text{ h}\hat{o} \text{ qai}$ , which is their head (III a). At this point,  $ca$  and  $qai$  are also found to be co-ordinate, and are set off simultaneously from the naked  $V_h \text{ h}\hat{o}$  (III b).

Lahu verb concatenations, in which morphology plays no part and where the surface syntax is of the simplest, constitutes an ideal terrain for the investigation of the generative role of raw semantics. Our analysis has no doubt raised as many questions as it has answered.<sup>51</sup> But perhaps it has demonstrated that this role is indeed a crucial one.<sup>52</sup>

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51 Foremost among these is: to what extent and in what detail does it make sense to expect the semantic systems of widely different languages to conform to a universal semantic theory?

52 Lorenz Löffler of Heidelberg Univ. informs me that in the Mru language of East Bengal (showing close affinities with the Kukish sub-group of TB), where the same sort of concatenatory phenomena obtain, the semantic equivalents of Lahu  $v$ -V's usually occur *after* the verb-head, while the equivalents of Lahu  $V_v$ 's generally occur *before* the  $V_h$ . This seems to gibe with the suggestion of my colleagues Diver and García that perhaps there is an 'overall meaning' to pre-headedness in general as opposed to post-headedness in general. At the moment, however, it is hard for me to see just what these 'positional meanings' might be.