Nominalization, relativization, and attribution in Lotha, Angami, and Burmese

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Lotha Naga, Angami Naga, and Burmese are Tibeto-Burman languages spoken in a region which includes Burma (Burmese) and the northeast Indian state of Nagaland (Lotha and Angami). In these languages, as in Tibeto-Burman more generally, grammatical subordination typically involves nominalization. In this paper, we will be concerned with three types of nominalized structures:

1) Relative clauses (e.g. 'The boy who is eating bananas...')
2) Attributive adjectives ('The fat boy...')
3) Sentential complements ('...likes to eat bananas/eating bananas')

Also included in the third category are Purpose and Reason clauses, with or without an overt complementizer (e.g. 'He came (in order) to eat a lot of fried bananas'; 'He got sick from (because of) eating too many bananas').

What such apparently diverse grammatical phenomena have in common is that in each — at least in the three languages considered here — a verb or verbal clause is subordinated to a head element (an NP in the relative and attributive types, and a VP in the case of sentential complements) by means of nominalization. Nominalized sentential complements are a common phenomenon in English, and thus pose no conceptual difficulty for the English-speaking linguist. Relative and attributive clauses, on the other hand, are not adjectival, as one might expect, but rather function in some sense as nominal appositives (e.g. 'the [banana-eating one] boy'; 'the [fat one] boy').

The tendency to nominalize embeddings holds across the language family as a whole. However, individual Tibeto-Burman languages vary in the number of different nominalizers they employ, and in the kinds of distinctions these encode. Angami Naga and Burmese are good examples of the opposite extremes of differentiation that can be found. In Angami, all of the subordination types mentioned above are effectuated by means of a single nominalizing morpheme, kə-. In Burmese, by contrast, the expression of relativization, attribution, and sentential complementation

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1 See for example Mattoff (1972).
involves no fewer than seven distinct nominalizing forms. In addition to
distinguishing categorically between the various grammatical types of
embedding (relative clause vs. sentential complement, etc.), these forms
systematically indicate whether the situation expressed by the embedded
clause is actually realized or unrealized. Burmese nominalizers thus
grammaticalize distinctions which in Angami must be derived from
context or specified by means of additional (e.g. aspect) morphology.

In between these two extremes lie most other Tibeto-Burman
languages, including Lotha Naga. In Lotha, two formally distinct
nominalizers cover the same functional territory as that of Angami kə– and
the seven Burmese embedding nominalizers. However, while the meaning
distinctions encoded by the Burmese forms are highly systematic, the
functional contrast between the two Lotha forms appears to resist
systematic description. Given English-based sensibilities and the
grammatical subordination types mentioned above, one might predict that
the two markers would be used to distinguish formally between NP-
modifying types (i.e. relative and attributive clauses) and those that modify
VPs (sentential complements). However, such is not the Lotha situation.
Rather, the available evidence suggests that the two forms are used, at least
in one area of the grammar, to contrast realized and unrealized embeddings,
as in Burmese. The evidence for this observation, as well as its implications
for language change, are considered in what follows.

1. Angami

We will begin by considering the Angami system. As mentioned above,
Angami has a general nominalizer kə– which is employed in a diversity of
functions: to derive gerundives and abstract nouns from verbs, to
subordinate relative clauses and adjectival verbs to nominal heads, to embed
sentential complements, and to derive deverbal adverbs. kə– is prefixed
either directly onto the verb, or onto the clause-final verbal marker (VM) if
one is present. When the nominalizer attaches directly to the verb, the
resulting form, taken out of context, may have several possible
interpretations; for example kəməsə, (from məsə ‘to clean’) could mean
either ‘cleaning’ (gerundive), ‘cleanliness’ (abstract noun), ‘clean’
(attributive adjective), ‘cleanly’ (adverb), or, when followed by a definite
article, ‘the clean one’ or ‘one who cleans’.

Of course, structural and semantic factors help to distinguish between
these functions in actual contexts of use. In relative clause constructions,

verbal markers (VM’s) indicating tense, aspect, valency, etc. are common,
and kə– attaches to these rather than to the verb. Relative clauses are
further distinguished by the presence of a definite article (e.g. ù ‘masculine/inanimate singular’), or head noun + definite article, following
the nominalized clause. Examples of Angami relative clauses are given in
(1) - (3):

1) [m̄h̀ gə bá] thəmī ə...
  thing think NZR-VM man the
  ‘The man who thinks...’

2) [thəmī ə ləsȫda ã pyə mərənyò u təp kə-wa] ã...
  man the book the take orphan the give NZR-VM the
  ‘The book the man gave to the orphan...’

3) təsə [gì kə-lı̄] ə...
or
  [təsə gì kə-lı̄] Ø ə...
  animal kill NZR-VM the
  ‘The animal that was killed...’ or
  ‘The one who killed an animal...’

Head nouns in Angami relative constructions commonly appear to the right
of the relative clause, as in (1), although they may also be clause-internal, as
in (2). Left-headed and headless relatives are also found; example (3) is
ambiguous, depending on whether the relative head is taken to be the overt
nominal təsə ‘animal’, or whether the clause is interpreted as headless
(the one).

What is also to be noted in these examples is aspect marking in the
embedded clause. Aspect is indicated by means of VM’s — e.g. bə ‘stative’
and lı̄ ‘resultative’ — rather than through the choice of nominalizer,
which remains kə– throughout.

Adjectival modification in Angami is similar to relative modification,
except that while relative clauses may be either left- or right-headed, the
head in adjectival constructions is always to the left. A further difference is
that the nominalizer kə– is prefixed directly to pure ‘adjectival’ verbs such as
sa ‘be new’, zìvi ‘be beautiful’, etc.

4) kì [kə-sa] ã...
  house NZR-be.new the
  ‘The new house...’

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<sup>2</sup> This figure does not represent the total number of nominalizers in Burmese; however, for
the purposes of this paper I am only considering those which correspond to the basic
grammatical subordination types identified in the first paragraph.
5) kí [kè- tá] [kè- zīvī] ü...
  house NZR-be.big NZR-be.beautiful the
  'The big, beautiful house....'

When other than adjectival verbs are involved, however, VM's may be part of
the embedding, and kè- attaches to these. In such cases, the distinction
between relative and adjectival modification is largely blurred, although
word order (head-modifier vs. modifier-head) still influences whether the
construction receives a relative or an adjectival interpretation.

6) [kí- nù kè-bá] tępé ü...
  house-loc NZR-VM dog the
  'The dog that is in the house....'

7) tępé [mōziē kè-tá] ü...
  dog be-tired NZR-VM the
  'The tired dog....'

In general, head-modifier order (as in the 'adjectival' construction in (7)) is
preferred when the attributed state is viewed as inherent or internal to the
person or thing modified, and modifier-head order (as in the 'relative'
construction in (6)) is preferred when the attributed situation is viewed as
circumstantial or external to the person or thing modified.3

Another important function of Angami kè- is the nominalization of
sentential complements. As with relative clauses, the nominalizer attaches
to the VM of the subordinate clause, which precedes the verbal 'head' that
embeds it. The same construction is employed regardless of whether the
complement functions as subject (ex. (8)) or object (exx. (9) - (10)) of the
matrix sentence, and regardless of the aspectual value of the subordinate
clause (generic in (8); unrealized in (9); realized in (10)).

8) [thèvo- tshetse pèkra kè-tsē] kêmiciē bá.
  pig- flesh eat a lot NZR-VM danger have
  'Eating too much pork is dangerous.'

9) [puo tio kè-tio] â mare bá.
  3s go NZR-VM is hope VM
  'I hope [that she will go].'

10) â [puo tatsu kè-tsē] ăng.
  1s 3s fall NZR-VM see
  'I saw [him fall].' (lit. 'his falling')

Purpose and cause complements follow essentially the same pattern, with
the additional stipulation that the 'reason' (RE) complementizer lâ directly
follows the nominalized complement.

11) [kuo khrè kè-tig] lâ ăng asiezāpfè kêtse sè té.
  fish buy NZR-VM RE 1s younger.sister send VM VM
  'I sent my sister [to buy fish].' (lit. 'for fish-buying')

12) â è [cha tig pèchâ kè-tá] lâ mēziē té.
  1s TOP path go long NZR-VM RE be.tired VM
  'I'm tired from [walking so long].'

Note that what crucially distinguishes 'purpose' from 'cause' in
constructions of this type is the aspectual value of the VM (tīo 'future;
unrealized' vs. tā 'change-of-state; realized') in the embedded clause.

2. Lotha

Lotha Naga shares a close genetic relationship with Angami, and the
two languages display a number of structural similarities. Not surprisingly,
Lotha has an equivalent to Angami kè-: the prefix è-,4 which functions as a
nominalizer in such lexicalized derivatives as è-vān 'inhabitant' (from
vān-ā 'to live'), and in attributive adjective constructions. è- also appears
as a relic in some clausal embeddings.5 In this latter use, however, it is
redundant in function with the more productive clause-final nominalizers -ō
and -y, which have no functional equivalents in Angami. It is to the
description of these productive forms that we now turn.

The morpheme -ō in Lotha subordinates relative clauses. As in
Angami, the Lotha relative head noun may appear to the left, inside, or to
the right of the embedded clause, or it may be deleted altogether. -ō is
suffixed to the final morpheme of the embedded clause, which is either the
verb or an aspectual auxiliary verb, and is followed by (head noun +) an
article, e.g. cī 'definite singular' or cīan 'definite plural'.

3 Cf. Egerod (1991: 375) for an observation relating this phenomenon to Tibeto-Burman as a
whole.

4 Possibly from the Proto-Tibeto-Burman copula *vāy. For a discussion of other
nominalizing reflexes of this proto-form, see Matsloff (1985).

5 See examples (13), (19), (34), (36), and (39).
13) [ē-nā ṇcū ōkī ē- vō-ô] ēpōe cī...
we yesterday house NZR-go-NZR man def.sg
'The man whose house we went to yesterday...'

14) [ē-nā ṇcū tsēpyōq- thl tsō-ô] cī...
we yesterday mango- fruit eat-NZR def.sg
'The mango that we ate yesterday...'

15) kyōn tōpfrū [orāŋ pī thāk-ô] cīrq...
people all money give finish-NZR def.pl
'All the people who already paid...'

16) 0 [orāŋ m- pī ham-ô] cīrq...
money neg-give have-NZR def.pl
'The ones who haven't paid...'

When the relativized nominal is non-specific in reference, the definite article cī or cīrq is replaced with the indefinite article ty.

17) [nī-nā ovoŋ ō- chete-ô] ty zo- y kā.
you sound neg- recognize NZR indef.sg hear- FUT decl
'You will hear a sound that you will not recognize...'

The same relative marker, 0-ô, is used regardless of the temporal or asp ectual value of the embedded clause. Temporal-aspectual distinctions are indicated in the embedded clause by auxiliaries such as thāk- 'finished, already; com plete' (ex. 15), vān- 'live, exist; durative' (ex. 19), and sa- 'intention; inchoative; future' (ex. 20, analogous in function to Angami verbal markers.). When no auxiliary is used (i.e. when 0-ô is suffixed directly onto the embedded verb), the usual interpretation is that the clause has past time reference, although this interpretation may be cancelled if the temporal frame of the matrix clause favors an alternative interpretation (e.g. future reference as in (17) above).

18) ēpōerōrō [yōthī tsō-ô] cī có ā- ʒom.
boy banana eat NZR def.sg TOP 1sg-friend
'The boy who ate bananas is my friend.'

19) ēpōerōrō [yōthī tsō-ô - vām6-ô] cī có ā- ʒom.
boy banana eat NZR-VM-NZR def.sg TOP 1sg-friend
'The boy who is eating bananas is my friend.'

20) ēpōerōrō [ōcūa rō sa-ô] cī có ā- ʒom.
boy tomorrow come VM-NZR def.sg TOP 1sg-friend
'The boy who will come tomorrow is my friend.'

The arguments for labelling 0-ô a nominalizer in these examples, rather than a relative marker, will be presented in the section on sentential complements below.

Lotha has not one but three devices for subordinating attributive adjectives to nominal heads. The choice of strategy is determined in large part by the adjective selected. Certain adjectival verbs, such as mhēn-ô 'to be ripe', form their attributives by prefixing 0-: 0-mhēn 'ripe; ripe one; ripeness'. Other attributive forms in 0- (0-thān 'new; new one; newness'; 0-khēn 'brave; brave one') presumably derive from adjectival verbs as well, although the verbs themselves are no longer in common use. (In these and all other Lotha attributive constructions, the head noun precedes the modifying clause, except when the former is deleted.)

21) tsēnthī [ē- mhēn]...
(c.f. tsēnthī mhēn-ô.
fruit NZR-be.ripe fruit be.ripe-PR
'Ripe fruit...'
'The fruit is ripe."

22) ōsē [ē- thān] cī có ni-chī,[ē- ke] cī
cloth NZR- be. new def.sg TOP you-poss NZR- be. old def.sg
có ontē 0- ʒi
TOP they NZR?- poss
'The new dress is yours; the old one is theirs.'

The second type of attribution involves invariant 'adjectival' forms which contain no overt nominalizing morpheme, yet which function as nouns. Examples of this type are tsēphōn 'green [thing]' and ēpyōn7 'appearance; beautiful [thing].'

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6 Final -n is often realized as -a before the nominalizer -ô. The same process is evident in example (16); han-ô cīrq 'the ones who have/had' is from han-ô 'to have'. It is conceivable that this phonological change is a remnant of an earlier stage when verbs in relative clauses were nominalized by means of the suffix -γ (han + -γ → hamy → ham; cf. ahəy-ahəm 'goodness, good thing' from mhēn-ô 'to be good').
7 The presence of the nominal classifier 0- in this word suggests that it is a natural noun.
23) kākō [tsəphon]... (cf. kākō tsəphon.
book green
'A green book...'

The remaining attributive adjectives in Lotha are of the third type, which is the most productive of the three in the modern language. It is formed by suffixing the nominalizer -ŋ to an adjectival verb.

24) vōkō [pëlē-ŋ]... (cf. vōkō pëlē-tā.
pig be.fat-NZR
'A fat pig...'

25) kākō [ráki-ŋ] ĕni...
book be.red-NZR two
'Two red books...'

26) [tsəpho-ŋ] cī...
be.big-NZR def.sg
'The big one...

As the following example from Acharya (1983, p.154) shows, a single head noun may be modified by multiple adjectival embeddings.

27) lōksā [ēmyōm] [tsəpho-ŋ] [mḥōm] cīaŋ...
basket be.red-NZR be.big-NZR be.good-NZR def.pl
'The good red baskets...'

(The final -m in ēmyōm and mḥōm is a phonologically reduced variant of the sequence -ŋŋ (see fn.6).) However, in the speech of my informant,8 there appears to be a purely surface constraint against having more than one -ŋ-marked adjectival verb (i.e. where -ŋ is transparently present) in sequence; that is, while (28) below is fine, neither (29) nor (30) is acceptable.

28) tsōŋthl [tsəpho-ŋ] [ē- mḥēn] cī...
fruit be.big-NZR be.good-NZR be.ripe def.sg
'The ripe, big fruit...'

29) vōkō [tsəpho-ŋ] [pëlē-ŋ] cī...
pig be.big-NZR be.fat-NZR def.sg
'The fat, big pig...'

30) *vōkō [pëlē-ŋ] [tsəpho-ŋ] cī...
pig be.fat-NZR be.big-NZR def.sg
'The big, fat pig...'

Rather, where two adjectival verbs in -ŋ would otherwise co-occur, the final one must take -ō in place of -ŋ.

31) vōkō [tsəpho-ŋ] [pëlē-ō] cī...
pig be.big-NZR be.fat-NZR def.sg
'The fat, big pig...'
or:
32) vōkō [pëlē-ŋ] [tsəpho-ō] cī...
pig be.fat-NZR be.big-NZR def.sg
'The big, fat pig...'

This surface peculiarity of the language is potentially significant. The fact that -ō can replace -ŋ without changing the intended meaning suggests that the meanings of the two morphemes are in some sense synonymous, thereby foreshadowing the problem of descriptive differentiation that emerges when we move on to consider the subordination of sentential complements.

The evidence for characterizing the 'relativizer' -ō and the 'attributizer' -ŋ as manifestations of a more general 'nominalizing' strategy in modern Lotha comes from the use of both forms to embed sentential complements, a grammatical process which involves the objectification or reification of a complete sentential proposition such that it may occupy the functional slot of a NP within a larger sentence. For example, sentence (33) below has as its grammatical subject the embedded proposition sotsē lēŋ-thā chō 'somebody killed the elephant'.

33) [sotsē lēŋ-thā-ō] cī ēlēm ē-nɔŋrā.
elephant knife.kill- NZR def.sg very we-sad
'The [killing of the elephant] was very sad'.

This example bears a strong similarity to the sentences containing relative clauses above (exx. (13)-(20)). Indeed, the embedded clause in (33), taken in isolation, is equally amenable to a headless relative interpretation, i.e. 'the one who killed the elephant'. According to the latter interpretation, -ō is associated with a single nominal argument (in this case, a null subject) in the embedded clause, while according to the interpretation given in (33), -ō is associated with the entire (nominalized) clause.

8 The majority of the data presented here was elicited from a female informant, aged 20, who is a native of Wokha, the largest town in the Lotha-speaking district of Nagaland.
Sentential complements normalized by -ô in my data are usually followed by the definite singular article cí. Example (34) shows that such need not be the case, however:

34) ẽmí cí có [ẽ- khon-ô] nà mpô vökõ cí
widow def.sg. TOP NZR-to.fear-NZR from 3sg. pig def.sg
Apfuho pí chò.
Apfuho give PAST
'The widow gave the pig to Apfuho out of [fear][lit. from fearing].'

It appears, therefore, that -ô alone has a nominalizing, as well as a relativizing function.

Sentential complements are also embedded by means of the 'attributive' subordinator -γ. Compare (33) above with (35) below:

35) [ãŋkami [ĩ] ŋsam(=ŋsand=-)] có ẽlêm khêñã.
Angami lg. to.speak-NZR TOP very difficult
'Speaking Angami [is] very difficult.'

In both sentences, the nominalized sentential complement functions as grammatical subject of the matrix clause. Yet -ô is the nominalizer used in (33), and -γ in (35). What factors determine the choice of -ô or -γ?

The analysis I propose is that Lotha employs two distinct nominalizing constructions as a means for differentiating between 'realized' and 'unrealized' sentential complements. In examples (33) and (35), there is no tense/aspect marking in the matrix clause; the choice of nominalizer (with its attendant structural requirements; see below) is the only formal indicator that the situation described in the embedding in (33) is realized in past time (i.e. 'Somebody killed the elephant'), or that the embedding in (35) is generic, and hence not realized in any specific instance (i.e. 'Somebody speaks Angami'). A similar contrast can be seen in the following sentence-pairs:

36) [vökõ-ô só ẽlêm Ó- tsô-γ] có ẽku- liâ.
pig- meat a.lot NZR-eat-NZR TOP danger-have
'Eating too much pork is dangerous.' (unrealized)

If we consider only the embedded complements in each of the examples above, we see that in addition to the -ô/-γ alternation, one member of each pair has the nominalizer ẽ- prefixed to the verb. However the ẽ- is part of the unrealized embedding in (36), and the realized embedding in (39); hence it cannot be said to contribute in any systematic way to the realized/unrealized distinction.

The paired sentences are further formally distinguished by the presence of the definite article cí after the realized embeddings, and the topic marker có after the unrealized embeddings. While it is not immediately obvious what connection there might be between the notions of 'topic' and generic/unrealized temporal reference, the presence of the definite article with realized embeddings is clearly related to the notion of 'specificity': realized situations are specifiable in that they are temporally-bounded, one-time occurrences. However the semantic notions 'specific'/ 'non-specific' cannot simply be substituted for 'realized'/unrealized', as the following pair of sentences shows:

40) [Ôcùã có ẽlêm elem-γ] [tsêk¬nã...
tomorrow TOP very be.hot-NZR for/since
'Since it will be very hot tomorrow...
(unrealized)

41) [nhêñô ẽlêm elem-ô] cí tsêk¬nã...
today very be.hot-NZR def.sg for/since
'Because it was very hot today...
(realized)

The unrealized embedding in (40) contains a specific, temporally-bound prediction, while the realized embedding in (41) contains a specific, temporally-bound report. Rather than placing undue emphasis on the

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9 Cf. Centineno's (1982) analysis of the two forms as embedders of 'factive' and 'non-factive' complements. Centineno argues that the choice between the two is determined by the speaker's degree of commitment to the factivity of the embedded proposition, i.e. as a type of evidentiality. The present analysis differs in taking the basic distinction to be that of aspect.
43) Lo-li yó-hi tó-tä gä ma b'ä c'í.

The one who killed an animal.

44) Angli the qä- lî-e u.

The one who is eating bananas.

45) Rea-mä (e'-) y'î-y'î echam-chak chä.

I promised that I would go. (lit. 1 promised. '10' will go.)

Alternatively, the embedded clause may be nominalized, making use of the subordinating or unrealized sentential complements. 

46) E-y'î-y'î echam-chak chä.

I promised. (lit. 1 promised. '10' promised.)

47) Log (NzR) go-NZR prom-ise.

I promised that I would go. (lit. 1 promised. '10' will go.)

48) Log (NzR) go-NZR prom-ise.

I promised that I would go. (lit. 1 promised. '10' will go.)

49) Lo-li yó-hi tó-tä gä ma b'ä c'í.

The one who killed an animal.

50) Lo-li yó-hi tó-tä gä ma b'ä c'í.

The one who killed an animal.

However, the qualitative particle to may be deleted from sentence (44) with no change in meaning, just as to is deletable in (43). The result is either ambiguous or nonselective, depending on the context.

Alternatively, the embedded clause may be nominalized, making use of the subordinating or unrealized sentential complements. 

'gy' may have been extended to that of clause subordinator, as indicated in (20). However, our task then becomes one of finding a plausible account for the narrowing of general nominal and finally, to simple future tense - a route of grammaticalization for which I know of no precedent at this time.

Finally, to simple future tense - a route of grammaticalization for which I know of no precedent at this time.
seems safe to conclude that -γ in its nominalizing function came eventually to compete with the relativizer -ơ in the domain of sentential embeddings, i.e. as a consequence of parallel but essentially unrelated developments of the sort sketched in the preceding paragraphs. The result was that Lotha began to formally encode a new functional distinction: realized vs. unrealized embeddings.

3. Burmese

In developing a systematic encoding of this distinction, Lotha speakers have moved in the direction of a similar aspectual opposition in Burmese. Burmese marks a binary distinction — realized vs. unrealized aspect — in both finite and embedded clause types. In finite clauses, the sentence-final particles te and me distinguish realized and unrealized situations, respectively. By the addition of creaky tone, the realized relativizer te and its unrealized counterpart, me, are created. Examples (46) and (47) illustrate realized and unrealized relative clauses.

46. [thu htain te] kâlahain...
3sg sit RELRLZ chair
The chair that he sat on... (realized)

47. [thu htain me] kâlahain...
RELUNR
The chair that he will sit on...
(unrealized)

Also derived from the sentence-final aspectual particles te and me are the nominalizers hta and hma ( < te/me + ha ‘thing’), used to embed sentential complements.

 meet able NZRRLZ happy POL VMRLZ
 ‘I was happy [to meet (her)].’ (realized)

49. [tvéi-ya-hma] wûntha-pan me.
 NZRUNR VMUNR
 ‘I would be happy [to meet (her)].’ (unrealized)

Sentential complements expressing purpose and cause also take contrasting subordinators: hpoû, specializing in purpose embeddings, and lou, specializing in cause embeddings. Whereas the Naga languages require two forms — a nominalizer plus a separate general ‘reason’ complementizer (Angami lâ; Lotha t sâkônâ) — to express these functions, Burmese hpoû and lou combine syntactic subordination with the semantic nuances of purpose and cause within a single form.

50. thu [ngâpyothl co amyâ-amyâ sà hpoû] hpe
3sg banana fried very.much eat NZRPURP only
la te.
come VMRLZ
‘He came just [to eat a lot of fried bananas].’ (unrealized)

51. [we?thâ âmyâ-çî sà lou] nei mâ kàun hpoû.
pig.meat much eat NZRCAUS exist NEG good VM
‘I got sick [from eating too much pork].’ (realized)

(cf. Angami examples (11) and (12); Lotha example (37))

The only exception to this thorough-going system of realized vs. unrealized embeddings in Burmese is found with attributive adjectives. Adjectives in Burmese are nominalized by means of an invariant morpheme, the prefix â-,12 as illustrated in (52).

52. eiñi [å- pya]...
shirt NZR-be.blue
‘the blue shirt...’

The nominalizing force of â- is further evident from its use to derive gerundives from non-adjectival verbs, e.g. â-hce ‘cooking’ from hce ‘to cook’ and â-hmou ‘blowing’ from hmoû ‘to blow’.

In all, Burmese employs seven different subordinators in the grammatical functions analyzed here: three realized/unrealized pairs for relativization and sentential embeddings (including purpose and cause embeddings), and a single element for subordinating attributive adjectives. The realized/unrealized aspectual distinction is thus a highly salient feature of the Burmese system.

The subordinating devices discussed thus far for Angami, Lotha, and Burmese are summarized in the table below.

12 < PREP *ADJ
4. Discussion

Despite the obvious differences in the degree to which the three languages distinguish formally among the various subordinating functions, it is possible to relate the three conceptually, i.e. as stages along a diachronic continuum. Lotha Naga appears to be in the process of shifting from a single nominalizing subordinator system like that of modern Angami, to a more differentiated system which shows the beginnings of a realized/unrealized contrast, like that of Burmese. Similar to Angami, Lotha shows tense/aspect in relative clauses by means of separate verbal markers, rather than through the choice of grammatical subordinator. Lotha resembles Burmese, however, in having different nominalizers to contrast realized and unrealized sentential complements. In embedded clauses of the latter type, additional aspectual specification is generally lacking.\(^{13}\)

Despite these general similarities, Lotha and Burmese differ in the particulars of sentential embedding. There is only a partial correlation between the functions of Lotha \(-\dot{o} / -\dot{\gamma}\) and Burmese \(hta / hma\). While in Lotha, generic assertions are embedded by the ‘unrealized’ nominalizer \(-\dot{\gamma}\), generic assertions in Burmese are treated as ‘realized’ and take \(hta\). Moreover, purpose and cause complements are encoded as a separate contrast in Burmese \(lou hpo\), while in Lotha they fall under the more general domain of realized/unrealized complements. Hence two very productive areas of ‘unrealized’ embedding via Lotha \(-\dot{\gamma}\) — purpose clauses (including the complements of verbs of cognition and intention) and generic clauses — fall outside the scope of the Burmese ‘unrealized’ nominalizer \(hma\). These differences are not however surprising in view of the fact that the realized/unrealized distinction was almost certainly arrived at via separate paths of development in the two languages.\(^{14}\)

5. Summary and Conclusion

In this paper, I have presented evidence relating subordinating strategies in three Tibeto-Burman languages. Burmese has a variety of subordinators, including three pairs which specify the aspectual distinction realized/unrealized. Angami Naga, in contrast, possesses only a general subordinating prefix, whose range of functions is very broad. Lotha Naga, the focus of the present investigation, was found to have two subordinators, one of which is also the marker of unrealized/future tense in independent clauses. This fact, along with contrasting sentence-pairs similar to those contrasted in Burmese by \(hta / hma\) and \(lou / hpo\), has led me to hypothesize a realized/unrealized distinction in Lotha sentential embedding strategies as well.

Unlike the Burmese situation, however, where the contrast extends systematically from simplex to embedded sentences, I suggest that Lotha has acquired the realized/unrealized distinction against the background of a single-nominalizer system like that of Angami. As the old general nominalizer \(\ddot{\alpha}\) weakened, its functions were divided between \(-\dot{o}\) and \(-\dot{\gamma}\), which were developing distinctive subordinating functions based on the grammatical meanings of their respective source elements. While this could easily have led to a straightforward split between relativization \((-\dot{o})\) and nominalization \((-\dot{\gamma})\), the language opted rather to utilize the new formal distinction to indicate aspect, at least in one area of embedding.

We see, therefore, how a comparison of Lotha with Burmese and Angami illuminates the internal grammar of Lotha itself. The comparative analysis undertaken here enables us to envision not only where Lotha has been, but where it might be headed. Viewed from this longer perspective, one of the more complex and hitherto puzzling aspects of Lotha grammar — the functional interplay between the suffixes \(-\dot{o}\) and \(-\dot{\gamma}\) — is brought into sharper focus.

\(^{13}\) The prediction might be advanced that if Lotha were to extend its realized/unrealized distinction to relative constructions, aspectual indicators would gradually disappear from relative clauses as well. However such is not the actual case. In relative clause formation, Lotha follows the Angami pattern rather than the Burmese.

\(^{14}\) The geographical and political features of the Burma-northeast India border region make extensive contact between speakers of Lotha and Burmese unlikely.
REFERENCES


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Inverse and pseudoinverse prefixes in Kiranti languages: evidence from Belhare, Athpare, and Dungmali

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1. Introductory remarks

Belhare, Athpare and Dungmali are small Rai languages located in the area between Bantawa to the West and Limbu to the East. Athpare is spoken in a few villages to the East and Southeast of Dhankuta. Belhare is the language of one small settlement on the slopes of the Belharai hill South of Dhankuta. Informants gave Athpare-Rai as the name of their language, but it differs considerably from Athpare both in grammar and in the lexicon and is definitely not a dialect of it. Although the number of speakers probably amounts to not more than 600 for Belhare and 2000 for Athpare, both languages are still regularly spoken in the villages. No further information is available about the situation of Dungmali. (*Please see map p. 91.*)

The verbal paradigms, probably the most conservative part of Kiranti languages, show strong affinities with the surrounding bigger languages that I have dealt with earlier in this journal (Ebert 1990). All three languages show traces of an old inverse marker and have pseudo-inverse prefixes, which function as 1st person patient markers.

Verbal prefixes in Tibeto-Burman are usually regarded as secondary innovations; but the discovery of more and more prefixing languages, and especially the establishment of cognates in such distant groups as Southern Rai and Gyarong indicate a considerable age at least for some prefixes. DeLancey (1988) has argued that the 'clitic series', i.e., the prefixes, may be older than the suffixal paradigm.

The Kiranti data and parallels outside Kiranti suggest that there are at least two layers of prefixes, one shared with Gyarong (2nd person *t-, inverse *u-), and one - probably younger - layer of pseudoinverse markers of different origins and grammaticalized to different degrees. For the latter set a parallel exists in Lushai, but it could well be an independent development there.

This article was originally written on the basis of the data from the Linguistic Survey of Nepal (LSN). In the meantime I have had the

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