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Classifier Systems and
Noun Categorization Devices in Burmese

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This article will deal with noun categorization devices in Burmese, including the well-known numeral classifier system. It will start by a brief review of typological studies on classifiers, before focusing on the studies done especially on Burmese classifiers. Then, in a second section I will present a summary of the features and functions of NUMERAL classifiers in this language, before taking up the question of another noun classification or noun categorization device.

1. Studies on noun classification systems
1.1. Typology of classifier systems

Since Greenberg’s article *Numeral classifiers and substantial number* in (1972), there have been a number of proposals for a typology of noun categorization systems; Adams and Conklin (1973), Denny (1976), Allan (1977), Seiler (1980), Croft (1994) provide essentially semantic cross-linguistic criteria for classification, whereas Dixon’s noun categorization analysis (1986) is based on grammatical features of classifiers, and makes a clear distinction between noun class systems and classifier systems.

Further typological studies on classifiers have been proposed by Craig (1992, 1993, 1999, 2000), Bisang (1993, 1999) and Aikhenvald (1998, 2000), extending the number, the types and the features of nuncategorization systems.

Bisang (1993) focuses on the functions of classifiers — he proposes *four operations of nominal concretization* used in classifier systems — that is to say: INDIVIDUALIZATION, CLASSIFICATION, REFERENTIALIZATION, RELATIONALIZATION. While Aikhenvald’s typology has seven noun categorization devices¹, Grinevald’s proposal provides only four main types of classifier systems based on

1 Aikhenvald’s typology provides seven noun categorization devices: (1) NOUN CLASS, (2) NUMERAL CLASSIFIERS systems, (3) NOUN CLASSIFIERS, (4) Classifiers in POSSESSIVE construction — with three sub-types —, (5) VERBAL CLASSIFIERS, (6) LOCATIVE CLASSIFIERS, (7) DEICTIC CLASSIFIERS. For details see (1998: 430-33), or (2000: 17-18)

morphe-syntactic features: noun classifier, numeral classifier, verbal classifier, genitive classifier (1992: 281-286). Unlike Aikhenvald\(^2\), she distinguishes gender or noun class systems from classifier systems, considering them as a type of noun categorization \(^3\). Regarding noun categorization as a grammatical-lexical continuum, she places noun classes (and gender) on one end and measure terms (and class terms) on the other end — the former are the most grammatical type on this continuum, whereas the latter are the most lexical type (1999: 101). Then, she considers classifiers systems to be at the mid-point of a grammatical-lexical continuum.

**Continuum: different noun classification systems**

From Grinevald (1999: 110)

<table>
<thead>
<tr>
<th>measure terms</th>
<th>grammatical</th>
</tr>
</thead>
<tbody>
<tr>
<td>class terms</td>
<td>noun classes and gender</td>
</tr>
</tbody>
</table>

classifiers systems
- (numeral CLF)
- (noun CLF)
- (genitive CLF)
- (verbal CLF)

In this paper, we will follow Craig’s typology, rather than Aikhenvald’s, given that it provides a distinction between class terms (located on the lexical part of the continuum) and noun classifiers (more grammatical) that might be relevant for Burmese.

1.2. **On Burmese classifier studies**

Numerical classifiers are one of the well-known characteristics of East and Southeast Asian languages, and the Burmese classifier system (henceforth CLF system) is in fact famous in the literature thanks to Becker’s often cited example of the word “RIVER”\(^4\) which is presented categorized by eight different classifiers that highlight different aspects of the noun meaning.

One might speak of a river in at least eight contexts. (Becker 1975:113)

- myiʔ tə myiʔ “river one river” (the unmarked case)
- myiʔ tə kʰuʔ “river one conceptual unit” (rivers in general)
- myiʔ tə yaʔ “river one place” (e.g. destination for a picnic)

\(^2\) Aikhenvald (2000: 3): The term ’classifier systems’ is used to denote a continuum of methods of noun categorization.

\(^3\) Grinevald (2000: 74): The claim of this typology is double: on one hand that there exists a linguistic category of ‘classifiers’ in some languages of the world, which is distinct from other nominal classification systems of more grammatical (gender-noun classes) or more lexical nature (measure terms, class terms).

\(^4\) The categorization of the word ’river’ by different classifiers had been already suggested by Hla Pe (1965: 169).
myiʔ tə taŋ  “river one line” (e.g. on a map)
myiʔ tə mŋwa  “river one section” (e.g. fishing area)
myiʔ tə sɨn  “river one distant arc” (a path to the sea)\(^5\)
myiʔ tə ɵwe  “river one connection” (e.g. connecting two villages)
myiʔ tə ˈpa  “river one sacred object (e.g. in mythology)

Often quoted, his example shows that the choice of the classifier depends upon the universe of discourse, and it does not reflect directly a classification of physical reality, but only one for linguistic purposes.

Becker (1975) puts forward a double semantic organization of the Burmese CLF system\(^6\), postulating that a self-other continuum underlies the whole system, which is already organized, as most of the CLF systems, according to 3 main semantic criteria: [± human], [± animacy], [shape]\(^7\).

Becker (1975) is not the only analysis of Burmese classifier system. As far as I know, the first attempt is due to Haas (1951), and has been followed by two major articles by Burling and Hla Pe (both published in 1965), which provide an important list of classifiers for the former, and an analysis in different morpho-syntactic types of classifiers for the latter.

To complete this brief review of previous studies of Burmese classifiers, I should mention Goral (1978) on NUMERAL CLFS of Southeast Asia, Lehman (1979) and (1990) on a formal theory of nominal classifier systems — which both devote an important part of their articles to Burmese classifiers — and a short article by Becker (1986), talking about the difficulties of translating classifier structures.

All of the surveys mentioned deal with various aspects of the Burmese NUMERAL CLF system, such as morpho-syntactic patterns, semantic features, pragmatic uses and lists of the classifiers.

The next section is a summary of what is known on Burmese NUMERAL CLF. Other noun categorization devices not discussed so far will be treated in a later section.

2. **Noun Categorization Devices in Burmese**

2.1. **Numeral classifiers**

In many languages of Southeast Asia, a number is never used without being accompanied by a special class of morphemes, known as NUMERAL CLFS. According to Hla Pe (1965: 167-68), the use of this kind of morpheme is attested in Burmese from the earliest records of the language, i.e. 12th-13th centuries. At that

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\(^5\) Becker's translation of the classifier */sin/* seems odd to my informant. Given that */sin/* is also the classifier for transportation, my informant prefers to view the river as a way of transportation rather than an arc.

\(^6\) Becker (1975: 118): The structure underlying classification starts with the self at the center, divides the self into head and body, and then ranges objects at four distances from the self, associating them either with the head (metaphorically top, round) or with the body (metaphorically bottom, straight).

\(^7\) See Craig (1986: 5) and also Bisang (1999: 9-10).
time these morphemes are not systematically used, but they start to become more consistent later.

2.1.1. Structure

Languages of East and Southeast Asia fall into two large groups according to the structure of noun phrases involving classifiers. Jones (1970) noticed that word order within the NP follows an areal pattern. In the North, represented by Chinese, Vietnamese, as well as Hmong (Bisang, 1999: 118), the head noun follows the numeral and the classifier ([NUM-CLF]- N). Whereas in the South, represented by Thai and Khmer, the head noun precedes the numeral-classifier group (N-[NUM-CLF]). Unsurprisingly, the Burmese NUMERAL CLF construction belongs to the second group.

(1) \[ N \text{ NUM - CLF} \]

\[ /'khwē p̥ê?/ \]

dog two CLF: animal

‘two dogs’

2.1.2. Nature

From a semantic point of view, Burmese NUMERAL CLFS should be divided into two subcategories: classifiers and quantifiers — also called sortal and mensural classifiers\(^8\). The distinction between sortal and mensural classifiers is based on the fact that reality can be quantified by counting or measuring objects.

Therefore, SORTAL classifiers are used to specify units (and not measures of quantity) in terms of which the referent of the head noun can be counted. They categorize referents in terms of their inherent characteristics, such as animacy (example 1), humanness, shape (2), social status (3, 4) or function (5)\(^9\).

(2a) \[ phya tə Chaʔ/ \]

mat one- CLF: flat & thin

‘one mat [spread out]’

---

\(^8\) On the distinction between sortal and mensural classifiers, see Craig (1992: 279) and Aikhenvald (2000: 115-18)

\(^9\) Denny’s classification is based on three types of human interactions: physical interaction, functional interaction and social interaction (1976: 125). Allan (1977) gives a list of semantic criteria used in many classifiers systems. According to Craig (1986: 5) and Bisang (1999: 9-10), humanness, animacy and shape will be primary among the semantic features used for classification while use and consistency will be secondary criteria.
(2b) 俸 eve 俸 || /phya te lei?/
mat one- CLF:cylindrical
‘one mat [rolled]’

(3) 俸 eve 俸 俸 俸 || /shaya tape’ ni? ‘u/ 
teacher student two- CLF:respected.people
‘one teacher and one student (2 persons)’

(4) 俸 eve 俸 || /tare’ ni? ‘u/ 
student two - CLF:people.of.all.kind
‘two students’

(5) 俸 eve 俸 || /’go’-pya ‘uN le?/
shovel three CLF: tool
tool 10
‘three shovels’

MENSURAL classifiers (or quantifiers), on the other hand, are used to group objects in a unit of measure that can be understood as being countable. For instance, they occur in structures of measuring mass nouns or non-discrete physical entities (6, 7), but also in arrangement of units of countable nouns (8) 11.

(6) 俸 eve 俸 || /we te ‘ToN/ 
gold one- CLF:piece
‘one nugget of gold’

(7) 俸 eve 俸 || /’ChiN ni? te?/
ginger two- CLF:shoot/growth
‘two small pieces of ginger’

(8) 俸 eve 俸 || /’nwa te qoq/ 
cow/zebu one- CLF:group
‘one herd of cows’

A particular structure is found for measures of time12 as exemplified in (9).

10 The morpheme used here to classify tools means hand as an independent noun. It brings to the fore the functionality of the tool.
11 On subtypes of mensural classifiers, see Bisang (1993: 9-11) and Hla Pe (1965: 176-80).
12 Goral (1978: 33) noticed that time nouns had also special behavior in Thai: Time nouns were also special cases of abstract nouns, and though they occur as CL’s they do not classify themselves.
Classifier systems or noun categorization devices in Burmese

The head noun is omitted, maybe because it is semantically redundant.

(9) ကြက် ကြက်ကလေး ကြက်ကလေးများ ကြက်ကလေးများ ကြက်ကလေးများ ကြက်ကလေးများ
/'le pa? ʔa-TwiN pyaN la Me/
Ø-four- CLF:week within be back come MODIR
‘I will come back within four weeks.’

Another particular structure, from a formal point of view, is found in both sortal and mensural CLF construction: the use of repeaters.

A repeater is the specific object itself (or part of it) used as a numerative (Hla Pe 1965:166). Repeaters are often used for otherwise ‘non-classifiable’ items. Notice also that if a classifier construction contains a compound noun, only the main noun is repeated as a classifier. This is the “semi-repeater” construction, e.g. (11).

(10) ကြက်ကြက်ကလေး ကြက်ကလေး ကြက်ကလေး ကြက်ကလေး ကြက်ကလေး
/ʔeiN Σ ʔeiN/
house one- CLF:house
‘a house’
(11) ကြက်ကြက်ကလေး ကြက်ကလေး ကြက်ကလေး ကြက်ကလေး ကြက်ကလေး
/ŋa-me-pwe: ŋa-pwe/
to question-party one CLF:party
‘an exam’

There does not seem to be in this language any clear grammatical (or morpho-syntactic) criterion to distinguish among classifiers or to corroborate a division into two semantic subcategories, the sortal and the mensural CLFS.

Hla Pe’s attempts (1965) to find syntactic criteria to distinguish between classifiers (sortal), quantifiers and repeaters is not entirely successful. Moreover, his three subcategories partly overlap, some morphemes being listed under both (sortal) classifiers and repeaters, or both (sortal) classifiers and quantifiers.

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13 Conventions used: GEN = genitive marker, MODIR = Irrealis, MV = Verbal particle, NEG = negation, NOM.Realis = nominalizer conveying realis modality, OBJ = object marker, POL = politeness, PLUR = plural, PTCL = (syntactic) particle

14 However, a distinction should be made between repeaters that are only used with one noun, called unique CLF by Grinevald (forthcoming) — like /ʔeiN/ ‘house’ in Burmese —, and those that classify themselves but also other nouns (or compounds), like /le, pwe/. Indeed /le/ may classify itself as in /le, tə le/ one hand, while /su/ occurs as a semi-repeater in

15 Hla Pe (1965: 166) asserts that classifiers are not independent or cannot occur as determinata, i.e. as head of compound noun or main syllable of a disyllabic noun. However, we found counter-examples: the classifiers /le/ for tools, /piN/ for plants and /KaN/ for animals can also occur as independent nouns, and table (12) shows classifiers occurring as main syllable of a compound.

16 The classifier for tools /le/ and the quantifier for groups /su/ are also listed as repeaters. Indeed /le/ may classify itself as in /le, tə le/ one hand, while /su/ occurs as a semi-repeater in
Table (12): Autonomy of classifiers vs. quantifiers

<table>
<thead>
<tr>
<th>(Sortal) CLF</th>
<th>Head noun of a compound</th>
</tr>
</thead>
<tbody>
<tr>
<td>clf for flat object</td>
<td>/chaʔ/  /a-chaʔ/</td>
</tr>
<tr>
<td>clf for vehicles</td>
<td>/siʔ/  /ʔa-siʔ/</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Quantifier</th>
<th>Head noun of a compound</th>
</tr>
</thead>
<tbody>
<tr>
<td>clf for group</td>
<td>/su/ /ʔa-su/</td>
</tr>
<tr>
<td></td>
<td>/miʔa-su/</td>
</tr>
<tr>
<td>clf for herd/flock</td>
<td>/ʔoʔ/ /ʔa-ʔoʔ/</td>
</tr>
<tr>
<td></td>
<td>/sa-ʔoʔ/</td>
</tr>
<tr>
<td>clf for piece of X</td>
<td>/ʔoN/ /ʔe-ʔoN/</td>
</tr>
</tbody>
</table>

2.1.3. Function

Enumerative expressions and indefinite expressions are found among the syntactic structures in which classifiers appear in Burmese. In both types of structures, the use of classifiers involves the same functions: classification (or categorization) and individualization\(^\text{17}\).

\(^{17}\) Classification (or categorization) precedes individualization according to Croft (1994: 161) and Bisang (1999: 3).

\((a)\) Enumeration

As in other classifier languages of Southeast Asia, nouns in Burmese express a mere “concept” of an object and can be viewed as denoting substance rather than body. But enumeration presupposes the isolation of natural units of the same kind. Therefore, to be used in enumeration, a noun needs to be transformed into a unit, and this individuation (liza)tion of units is dependent on inherent features (categorization).

Both mensural and sortal CLF in Burmese display the two functions (i.e. classification and individualization) with a slight difference: quantifiers create the unit to be counted — this is obvious with mass nouns as in (13) — whereas sortal classifiers actualize the semantic boundaries which already belong to the concept of a given noun (Bisang 1999: 3) e.g. (2).

\[(13)\]

\[
\begin{align*}
\text{كدكلا دكلا} & \quad \text{ك} \\
/\text{leʔpheʔ-ye} & \quad /\text{ʔiʔ} & \quad \text{Khweʔ/}
\end{align*}
\]

‘drinking tea two - CLF: hollow container’

compound such as family or a group of X (table 12).
(b) Indefinite expressions

Indefinite expressions also require classifiers. The use of the numeral one followed by a reduplicated classifier expresses the idea of someone or any one, something or any thing as shown in examples (14). In the same way, negative indefinite expressions require the numeral one plus the appropriate classifier followed by the particle /ma'/ as in (15). As in Lahu (Matisoff 1973: 88-93) a closely related Tibeto-Burman language, classifiers may also be used in expressing the indefinite adjective every/each (16) — although this is not the only possibility in Burmese18.

(14a) စွ စီးဖယ်ခြင်း စွ ဝမ် ||
/tə yo? yo? la Me/ one (CLF: hum)2 come MODIR
‘Someone will come.’

(14b) စီးဖယ်ခြင်း စီးဖယ်ခြင်း ဝမ် ဝမ် ||
/(saʔoʔ) tə ʔoʔ-ʔoʔ yu Pa/
(letter-tied=book) one CLF- CLF (group) take POL
‘Take one of the (books) [tied object].’

(15) စီးဖယ်ခြင်း စီးဖယ်ခြင်း ဝမ် ဝမ် ဝမ် ဝမ် ဝမ် ဝမ် ||
/ʔoN Ta tə Khu’ ma’ mə ‘pe ’Phu/ ask NOM.Realis one (CLF: general) PTCL NEG give NEG
‘He gives nothing [even not a thing] of what it is asked.’

(16a) စီးဖယ်ခြင်း စီးဖယ်ခြင်း ဝမ် ဝမ် ဝမ် ဝမ် ဝမ် ဝမ် ||
/kəle-Twe Ko tə yo? ‘pyi tə yo? ‘pe Pa/
child-Plur OBJ one (CLF:hum) after one (CLF:hum) give POL
Give (some) to each/every child (one after the other).

(16b) စီးဖယ်ခြင်း စီးဖယ်ခြင်း စီးဖယ်ခြင်း ဝမ် ဝမ် ဝမ် ဝမ် ဝမ် ဝမ် ||
/(kə’le) tə yo? si ‘saʔoʔ tə ʔoʔ ‘pe Pa/
(child) one (CLF: hum) PTCL book one (CLF: group) give POL
‘Give a book to every/each (child) (one by one).’

18 Unlike other languages of Southeast Asia (Thai, Lahu), Burmese does not use reduplicated classifiers for the indefinite plural; to express the idea roughly, approximately X items, Burmese adds the verb /ləl/ be sufficient to the numerative construction.
(c) Anaphoric use or referentialization function

In Burmese, the head noun can be omitted in CLF constructions, if it is already known from the discourse situation. In that case, which is common in numeral classifier languages\(^{20}\), the classifier refers in anaphoric way to the deleted noun. (See examples (17) and (18)).

(17) စီမှာ သော ဒီ ကော် သွား ခဲ့ပါ နောင်
 /di `
YaNgO N Ko ma `wa Phu/
 this car Rangoon OBJ NEG go NEG

/နားသေး ဒီ ကော် သွား ခဲ့ပါ
 /no?  ta-si  `si Pa/
 next one-CLF:vehicle travel POL

‘This car does not go to Yangon. Take the following (one).’\(^{21}\)

(18a) စီမှာ သော များ နှစ် ကော် သွား ခဲ့ပါ နောင်
 /θəyεʔ θi  `ηa  `luN yu-Khe` Pa/
 mango five CLF: 3D take-VM (mvt) POL

‘Bring me back five mangos.’

(18b) စီမှာ သော များ နှစ် ကော် သွား ခဲ့ပါ နောင်
 /θə yεʔ θi we yN `ηa `luN yu-Khe` Pa/
mango buy if 0- five CLF: 3D (round) take-VM (mvt) POL

‘If you buy mangos, bring me back five [round objects].’

(18c) စီမှာ သော များ နှစ် ကော် သွား ခဲ့ပါ နောင်
 /θə yεʔ θi we `pe Pa beʔηιʔ `luN lo-ChiN θə le/
mango take-AUXbener POL how.much- CLF:3D want MODR-QU

‘Buy me some mangos.’ – ‘How many [round objects] do you want?’

2.2. Class terms and NOUN-CLASSIFIER system

In the previous section, I summarized the characteristics of the obvious and large NUMERAL CLF system in Burmese, which provides a conceptual and pragmatic classification. Burmese seems to have other noun categorization devices, rather based on taxonomic classification: the noun classifier (henceforth NOUN CLF) system and/or CLASS TERMS.

\(^{20}\) See Croft (1994: 163): Another significant function of numeral classifiers is anaphoric, and as such they also have a reference tracking function.

\(^{21}\) Matisoff (1973) reports on the use of one + CLF in Lahu to express 'the following X'. In Burmese, we consider this use of the CLF with the numeral 'one' simply as an anaphoric situation.
2.2.1 Definition

According to Grinevald (1999: 112-113) followed by Aikhenvald (2000: 82-84), NOUN CLFS have the following properties:

- They characterize the noun and co-occur with it in a NP (noun phrase). But every noun of the language does not necessarily take a NOUN CLF.
- NOUN CLFS correlate with inherent semantic features of noun, such as “animal”, “human”, “plant”22.
- There is often a generic-specific relationship between a NOUN CLF and a noun.

(DeLancey 1986: 438).

However, a slight difference exists between their two definitions. Unlike Aikhenvald whom uses NOUN CLFS as a uniting name, Grinevald distinguishes CLASS TERMS from NOUN CLFS. They are both related to lexicon, but the use of CLASS TERMS seems to be restricted to lexical composition, whereas NOUN CLFS may have grammatical functions such as being determinants or pronouns as in Jacaltec (Grinevald 1999: 107 and 2000: 64-65). Productivity, degree of lexicalization, grammatical function and semantic field are the relevant criteria in deciding whether a language has CLASS TERMS or a NOUN CLF device. However, the distinction seems hard to establish.

Therefore, I will use CLASS TERMS unless there is evidence of a clear grammatical system using the categorizing morphemes23.

2.2.2 CLASS TERMS in Burmese

Burmese, like Garo and other Tibeto-Burman languages spoken in Northeast India24, seems to have “noun compound constructed from a categorizing initial portion [i.e. a CLASS TERM] to which is added one or more syllables that indicate the specific member of the category” (Burling 1984: 14). The compound nouns, in which these categorizing first syllables occur, belong to particular semantic categories such as fish, birds and mushrooms.

A quick scan of Bernot’s dictionary (1979-92) revealed around 70 fish nouns starting with the CLASS TERM /ŋa/ — where we can recognize diachronically the generic name for fish /ŋa/. Concerning bird names, Bernot dictionary provides less than 30 entries having the generic noun /ŋεʔ/25 as a first syllable. The generic

22 See Bisang (1993: 16-17) on the universality of splitting up the world into categories as suggested by Berlin, and the use of these particular categories.

23 In my opinion, NOUN CLF system should be viewed as a particular kind of CLASS TERMS, a sub-category on the grammatical side rather than the lexical side of this type of classifiers, or on the path of grammaticalization.

24 See Jacquesson (1998). However, unlike the Tani dialects described in this article in which almost all the nouns are disyllabic, the majority of Burmese nouns are monosyllabic.

25 Notice however that there exist fish names and bird names that are not compounds with /ŋa/ and /ŋεʔ/ respectively. But, without a zoological encyclopedia, I can only give a sketch of the situation that might be confirmed (or not) by deeper studies and serious statistics.
term /mwe/ is used as the first part of the compounds in 15 names of snake, and half a dozen of turtle names start with the morpheme /lei?/, which is also the term for an unspecified turtle. (See table 20)

Table 20: Compounds with a [generic-specific] construction

<table>
<thead>
<tr>
<th>/ŋə - `məN/</th>
<th>shark</th>
<th>/ŋə - <code>θaN nu</code>/</th>
<th>catfish</th>
</tr>
</thead>
<tbody>
<tr>
<td>/ŋə - <code>KiN </code>Pə/</td>
<td>mackerel</td>
<td>/ŋə - tə she/</td>
<td>octopus</td>
</tr>
</tbody>
</table>

Table 20: Compounds with a [generic-specific] construction (cont.)

<table>
<thead>
<tr>
<th>/ŋə ?- ka `la/</th>
<th>Asian stork26</th>
<th>/ŋə ?- `kha/</th>
<th>jay (bird)</th>
</tr>
</thead>
<tbody>
<tr>
<td>/ŋə ?- θə `kho/</td>
<td>a kind of</td>
<td>(ŋə) əgə əmə</td>
<td>seagull</td>
</tr>
<tr>
<td></td>
<td>blackbird27</td>
<td>/ŋə ?- SiN yo/</td>
<td></td>
</tr>
<tr>
<td>/mo-phyu hu`/</td>
<td>a kind of</td>
<td>/mo - ?u ne?/</td>
<td>black-head</td>
</tr>
<tr>
<td></td>
<td>mushroom</td>
<td></td>
<td>mushroom</td>
</tr>
<tr>
<td>/mwe - `pwe/</td>
<td>viper</td>
<td>/mwe - le? pa?/</td>
<td>whip-snak</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>e</td>
</tr>
<tr>
<td>/lei? - pyə?/</td>
<td>turtle</td>
<td>/lei?-Ce? Tu`ywe/</td>
<td>sea turtle</td>
</tr>
<tr>
<td></td>
<td>(fresh water)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Beside these generic-specific compounds, some compound nouns that are not synchronically analyzable can also be found in Burmese. Most of the time, their first syllable has lost tone and vowel quality [/Sa`Pwe/ ~ table28], as well as its meaning. (In the following examples, the first syllable does not have a recognizable meaning: /Sa`Ka/ ~ speech, /pa`ya/ ~ pagoda, /Tə`she/ ~ yeast).

Like most Southeast Asian languages, Burmese is analytic and monosyllabic or sesquisyllabic (“syllable-and-a-half”) in structure (Matisoff 1991: 386). Therefore the occurrence of a reduced initial syllable in a compound seems to be a good clue to its antiquity.

Indeed, Thurgood (1981) mentions a pre-head classifier system regarding many of the reduced initial syllables in Burmese compounds29, whereas Maspero

26 Xenorhynchus asiaticus.
27 Monticola solitaria affinis.
28 In /Sa`Pwe/ ~ table, the first syllable pronounced toneless and with a schwa, can still be analyzed as `/sa/ ‘to eat.’
29 Thurgood (1981: 12): Many of the reduced initial syllables in Burmese compounds appear to
Classifier systems or noun categorization devices in Burmese

(1947) found traces of prefixes in Burmese vocabulary\textsuperscript{30}.

2.2.3 Search for an old noun categorization device
Starting the search for remnants of an old noun categorization device, here is the procedure followed.

\textit{(a) Procedure}
- The first step was to make a list of all Burmese disyllabic words having the same initial syllable, i.e. supposedly traces of prefixes. The second step was to group the words by semantic criteria, given that the purpose was to figure out if a general meaning could be found for these prefixes.
- The first syllable to be analyzed was the one written $\infty /\text{ka}/$ (with the inherent vowel /a/). All disyllabic (polysyllabic) nouns starting with this letter were listed, paying particular attention to the vowel pronunciation, to keep only vowels realized without any indication of tone or vowel quality, given that this is a good clue for old compounds words.

Identified loan words\textsuperscript{31} were also discarded.

- From the list obtained, nouns were then grouped by semantic domain. As suggested by Thurgood’s remark (see footnote 35), I check first if the nouns refer to plants.
- The procedure was repeated with two other syllables $\infty /\text{sa}/$ and $\infty /\text{ta}/$.

\textit{(b) Results}
- Working with the Burmese-English dictionary, for the letter $\infty /\text{ka}/$, 63 nouns with the first reduced syllable /Ka/ were found, excluding the loans from Môn, Pali, English and other languages.

What emerges from this list is that 16 of the 63 nouns are plant names, 7 animal names and 4 tribe names.

\textsuperscript{30} Prefixation was a derivational process used in PTB languages (1947: 155-56), also attested in Burmese according to Maspero (1947: 155-56, 167-68). He noticed that until now, the prefix /qa/ is still used in Burmese word formation, whereas the other prefixes survive only through traces, and are not anymore productive: D’autre part, il [le birman] forme aujourd’hui encore des noms verbaux par le préfixe a-. […] Mais aucune autre formation par préfixe n’est restée vivante, et n’a laissé plus que des survivances dans le vocabulaire (1947: 168).

\textsuperscript{31} I worked with the English-Burmese Dictionary (1998), which indicates the origin of loans words.

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Alice Vittrant

- For the syllable š/sa’, 28 nouns with the reduced first syllable /Sa/ were found, excluding loans. Of these 28 nouns, only one was a plant name, and two were animal names.
- For the syllable ∞/ta’, 33 nouns with the reduced first syllable /Ta/ were found, excluding loans. In this list, there were 3 plant names.

(b) Conclusion of this sketch

The number of nouns having the reduced syllable ∞/ka’/ is larger than that of nouns having š/sa’/ or ∞/ta’/. One quarter of this list represents plant names32, whereas they are almost non-existent in the two other lists.

<table>
<thead>
<tr>
<th>Nouns starting with</th>
<th>Total</th>
<th>Plant nouns</th>
<th>Animal nouns</th>
</tr>
</thead>
<tbody>
<tr>
<td>prefix ∞/ka’/</td>
<td>63</td>
<td>16</td>
<td>7</td>
</tr>
<tr>
<td>prefix š/sa’/</td>
<td>28</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>prefix ∞/ta’/</td>
<td>33</td>
<td>3</td>
<td>-</td>
</tr>
</tbody>
</table>

Regarding the results, ∞/ka’/ seems to be a good candidate for being a trace of an old pre-head “classifying” system, as suggested by Thurgood. This result should be compared to the categorizing prefixes found in other languages of the area, even those that are not genetically related (See Bilmes 1998, Thurgood 1988). However, even with this encouraging result, we are far from giving some meaning to the prefix ∞/ka’/.

2.2.4 - Conclusion about this class term system or generic-specific compounds

This first attempt to answer the question, “Are there class terms in Burmese?”, leads us to the following temporary conclusion; the presence of recognizable categorizing morphemes in the Burmese lexicon had led us to postulate a second classifying process. We found good clues to the existence of an old noun categorization device in Burmese using unanalyzable prefixes. However, none of these structures — the old structure with the reduced syllable or the more recent structure with analyzable (and semantically motivated) first syllable — is productive.

2.3. New categorization structures

2.3.1. Categorizing the vegetal domain

According to typological studies (Grinevald 2000: 59), vegetal domain is often the most productive field for class terms and noun CLF device. Indeed in Burmese, naming a plant, a fruit or a flower requires the use of a generic term. But

32 In Bernot’s dictionary (1979-92), which is more complete but does not always give the origin of the words, I picked up 53 plant nouns with a first reduced syllable /Ka’/.
 unlike the examples given above, the categorizing morpheme in these nouns follows the species noun and the compound noun shows the following morpho-syntactic pattern:

(21) [Species NOUN – CATEGORIZING MORPHEME] or [NOUN - CLASS TERM]

Examples are given in tables 22, 23 and 24.

Table 22: Class terms in the vegetal domain (fruits and plants)

<table>
<thead>
<tr>
<th>Fruit</th>
<th>Plant</th>
</tr>
</thead>
<tbody>
<tr>
<td>1a မာနား ပား ဗိ နီး (သာယာ)</td>
<td>သီး ပြား ဗိ နီး (သာယာ)</td>
</tr>
<tr>
<td>1b မာနား ပား ဗိ နီး (သာယာ)</td>
<td>သီး ပြား ဗိ နီး (သာယာ)</td>
</tr>
<tr>
<td>2a မာနား ပား ဗိ နီး (သာယာ)</td>
<td>သီး ပြား ဗိ နီး (သာယာ)</td>
</tr>
<tr>
<td>2b မာနား ပား ဗိ နီး (သာယာ)</td>
<td>သီး ပြား ဗိ နီး (သာယာ)</td>
</tr>
<tr>
<td>3a မာနား ပား ဗိ နီး (သာယာ)</td>
<td>သီး ပြား ဗိ နီး (သာယာ)</td>
</tr>
<tr>
<td>3b မာနား ပား ဗိ နီး (သာယာ)</td>
<td>သီး ပြား ဗိ နီး (သာယာ)</td>
</tr>
<tr>
<td>4a မာနား ပား ဗိ နီး (သာယာ)</td>
<td>သီး ပြား ဗိ နီး (သာယာ)</td>
</tr>
<tr>
<td>4b မာနား ပား ဗိ နီး (သာယာ)</td>
<td>သီး ပြား ဗိ နီး (သာယာ)</td>
</tr>
<tr>
<td>5a မာနား ပား ဗိ နီး (သာယာ)</td>
<td>သီး ပြား ဗိ နီး (သာယာ)</td>
</tr>
<tr>
<td>5b မာနား ပား ဗိ နီး (သာယာ)</td>
<td>သီး ပြား ဗိ နီး (သာယာ)</td>
</tr>
</tbody>
</table>

Moreover, what is noticeable is that it seems to be a productive process. Indeed, the Burmese nouns for daisy and dahlia (table 24) — which are imported flowers — follow the rule and occur with the CLASS TERM at the end of the compound.

Table 23: Class terms in the vegetal domain (flowers and plants)

<table>
<thead>
<tr>
<th>FLOWER</th>
<th>PLANT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1a မာနား ပား ဗိ နီး (သာယာ)</td>
<td>သီး ပြား ဗိ နီး (သာယာ)</td>
</tr>
<tr>
<td>1b မာနား ပား ဗိ နီး (သာယာ)</td>
<td>သီး ပြား ဗိ နီး (သာယာ)</td>
</tr>
<tr>
<td>2a မာနား ပား ဗိ နီး (သာယာ)</td>
<td>သီး ပြား ဗိ နီး (သာယာ)</td>
</tr>
<tr>
<td>2b မာနား ပား ဗိ နီး (သာယာ)</td>
<td>သီး ပြား ဗိ နီး (သာယာ)</td>
</tr>
<tr>
<td>3a မာနား ပား ဗိ နီး (သာယာ)</td>
<td>သီး ပြား ဗိ နီး (သာယာ)</td>
</tr>
<tr>
<td>3b မာနား ပား ဗိ နီး (သာယာ)</td>
<td>သီး ပြား ဗိ နီး (သာယာ)</td>
</tr>
<tr>
<td>4a မာနား ပား ဗိ နီး (သာယာ)</td>
<td>သီး ပြား ဗိ နီး (သာယာ)</td>
</tr>
<tr>
<td>4b မာနား ပား ဗိ နီး (သာယာ)</td>
<td>သီး ပြား ဗိ နီး (သာယာ)</td>
</tr>
</tbody>
</table>

33 Also known as the Pagoda tree (apocynacée, Plumeria acutifolia).
Table 23: Class terms in the vegetal domain (flowers and plants) (cont.)

<table>
<thead>
<tr>
<th></th>
<th>Burmese</th>
<th>English</th>
</tr>
</thead>
<tbody>
<tr>
<td>5a</td>
<td>ပန်း နိုမ်း</td>
<td>dahlia</td>
</tr>
<tr>
<td></td>
<td>deliya 'PaN</td>
<td>/deliya/-FLOWER</td>
</tr>
<tr>
<td>5b</td>
<td>ပန်း နိုမ်း</td>
<td>dahlia</td>
</tr>
<tr>
<td></td>
<td>deliya PnN</td>
<td>/deliya/-PL.</td>
</tr>
<tr>
<td>6a</td>
<td>ပန်း နိုမ်း</td>
<td>carnation</td>
</tr>
<tr>
<td></td>
<td>zō`mwa 'PaN</td>
<td>/zō`mwa/-FLOWER</td>
</tr>
<tr>
<td>6b</td>
<td>ပန်း နိုမ်း</td>
<td>carnation</td>
</tr>
<tr>
<td></td>
<td>zō`mwa PnN</td>
<td>/zō`mwa/-PL.</td>
</tr>
<tr>
<td>7a</td>
<td>ပန်း နိုမ်း</td>
<td>daisy</td>
</tr>
<tr>
<td></td>
<td>desi 'PaN</td>
<td>/desi/-FLOWER</td>
</tr>
<tr>
<td>7b</td>
<td>ပန်း နိုမ်း</td>
<td>daisy</td>
</tr>
<tr>
<td></td>
<td>desi PnN</td>
<td>/desi/-PLANT</td>
</tr>
</tbody>
</table>

The exceptions to this quasi-systematic categorizing process in the vegetal domain are generally phonological (or periphrastic) loans such as the one for *litchi*34 (table 24). However, notice that unlike the name for the fruit, the noun for *litchi tree* follows the pattern: the CLASS TERM appears after the species noun.

Table 24: Irregularities in Class terms (Flora)

<table>
<thead>
<tr>
<th></th>
<th>Flower or Fruit</th>
<th>Plant</th>
</tr>
</thead>
<tbody>
<tr>
<td>1a</td>
<td>ဗိုလ် ချာ (ချာ)</td>
<td>strawberry</td>
</tr>
<tr>
<td></td>
<td>(s)a)teberi ('θi)</td>
<td>/s(a)teberi/- (FR.)</td>
</tr>
<tr>
<td>1b</td>
<td>ဗိုလ် ချာ</td>
<td>strawberry plant</td>
</tr>
<tr>
<td></td>
<td>(s)a)teberi PnN</td>
<td>/s(a)teberi/-PL.</td>
</tr>
<tr>
<td>2a</td>
<td>ထိုး</td>
<td>litchi</td>
</tr>
<tr>
<td></td>
<td>li `Chi-</td>
<td>/li `Chi/-Ø</td>
</tr>
<tr>
<td>2b</td>
<td>ထိုး</td>
<td>litchi tree</td>
</tr>
<tr>
<td></td>
<td>li Chi PnN</td>
<td>/li `Chi/-PLANT</td>
</tr>
<tr>
<td>3a</td>
<td>ပန်း နိုမ်း</td>
<td>apple</td>
</tr>
<tr>
<td></td>
<td><code>paN</code>θi</td>
<td>“flower”-FRUIT</td>
</tr>
<tr>
<td>3b</td>
<td>ပန်း နိုမ်း</td>
<td>apple tree</td>
</tr>
<tr>
<td></td>
<td><code>paN</code>θi PnN</td>
<td>“flower fruit”-PL.</td>
</tr>
</tbody>
</table>

Coming back to the animal realm, Burmese surprisingly also provides bird and fish nouns following this second morpho-syntactic pattern. For instance, as exemplified in table (25), the CLASS TERM for birds /.heap/ occurs at the end of numerous bird nouns. Notice that it is the same morpheme that occurs as a categorizing prefix in table (13). In the same way, the generic term /ŋa/ occurs as a CLASS TERM for fish at the end of the compound.

Table 25: Class terms in the animal realm

<table>
<thead>
<tr>
<th></th>
<th>BIRD</th>
<th>FISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>သောင် သောင် ဗုံ</td>
<td>woodpecker</td>
</tr>
<tr>
<td></td>
<td>/θi? to? ŋe?</td>
<td>/θi? to?/- BIRD</td>
</tr>
<tr>
<td>5</td>
<td>ညိ ညိ</td>
<td>gold fish</td>
</tr>
<tr>
<td></td>
<td>ʃe `ŋa</td>
<td>/ʃe/- FISH</td>
</tr>
<tr>
<td>2</td>
<td>ကောင် ကောင် ဗုံ</td>
<td>brown hawk-owl</td>
</tr>
<tr>
<td></td>
<td>khin po? ŋe?</td>
<td>/khin po?/- BIRD</td>
</tr>
<tr>
<td>6</td>
<td>ညိ ညိ ညိ ညိ</td>
<td>white bellied opsarion</td>
</tr>
<tr>
<td></td>
<td>yin poN sa `ŋa</td>
<td>/yin poN sa/- FISH</td>
</tr>
<tr>
<td>3</td>
<td>ဗုံ ဗုံ</td>
<td>falcon</td>
</tr>
<tr>
<td></td>
<td>`θeiN ŋe?</td>
<td>/`θeiN/- BIRD</td>
</tr>
</tbody>
</table>

---

34 The word for *litchi* is borrowed from Cambodian, according to the *Burmese-English Dictionary* (1998). (Which is in turn a loan from Sinitic ed.)
Classifier systems or noun categorization devices in Burmese

I also notice a few mushrooms names, insect names and one turtle name, in which the generic term appears at the end of the compound. (See table 26)

Table 26: Class terms in other compounds

<table>
<thead>
<tr>
<th>Animal</th>
<th>Mushroom</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 yiN ηaN</td>
<td>fly</td>
</tr>
<tr>
<td>/yiN /-ANIMAL</td>
<td>mushroom</td>
</tr>
<tr>
<td>2 ιN ηaN</td>
<td>locust</td>
</tr>
<tr>
<td>/ηaN /-ANIMAL</td>
<td>mushroom</td>
</tr>
<tr>
<td>3 <code>θiN </code>lei?</td>
<td>little turtle</td>
</tr>
<tr>
<td>`/θiN /-TURTLE</td>
<td></td>
</tr>
</tbody>
</table>

But regarding some nouns ending with the generic term, such as the fish noun /jwe `nā/ (table 25-5), which is analyzable as ‘gold + fish’, we may wonder what the relationship is between this classifying process and determination, given that formally they show similar structures.

(27) a. ကြက် မို အမ်း derive from /jwe `nā/  
   ‘gold fish’  

b. ချိန် (ချိန်) မို အမ်း derive from /`mo`mo (ye’) `nā/  
   ‘Mo Mo’s fish’  

c. ကြက် မို အမ်း derive from /jwe `yoʔ-tu’/  
   ‘a golden statue’

2.3.2 Relationship between CLASS TERMS and NUMERAL CLFS

We may also report on the formal relationship that exists between CLASS TERMS and NUMERAL CLFS.

CLASS TERMS have been sometimes considered as classifiers. Confusion in the terminology is partly due to the relationship that exists between CLASS TERMS and NUMERAL CLFS. Related through their semantic features and/or their forms, they may also co-occur in a language (Aikhenvald 2000: 187).

DeLancey, in his history of Tai classifier system, says that lexically the two categories overlap to a considerable degree (1986: 442), and suggests that CLASS TERMS [class nouns] provide a source for NUMERAL CLFS (1986: 445-46). Also for Bisang (1999: 41), the process of grammaticalization involved in Southeast Asian Languages (Hmong, Vietnamese, Thai) starts from a categorical system based on taxonomy, i.e. CLASS TERMS or a NOUN CLF system.

As in Thai (DeLancey 1986: 438), some CLASS TERMS in Burmese also function as numeral CLF. Table 28 shows the CLASS TERMS for plants, fruits, animals and the numeral CLF generally used for these items. Notice however that the animal CLASS TERM does not occur in many compounds. Moreover, the CLASS TERM for trees, which is used also as the numeral CLF, can be omitted in enumeration under certain circumstances, for example, when a person is in a nursery shop, and enumerates how many of each kind of plants (s)he will take.

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Table 28: CLASS TERMS and NUMERAL CLFS

<table>
<thead>
<tr>
<th>Item</th>
<th>Class term</th>
<th>Numeral CLF</th>
<th>Item</th>
<th>Class term</th>
<th>Numeral CLF</th>
</tr>
</thead>
<tbody>
<tr>
<td>plant, tree</td>
<td>-ဗီ</td>
<td>ဗီ</td>
<td>animal(worm, fly...)</td>
<td>-(ဗီ)</td>
<td>ဗီ</td>
</tr>
<tr>
<td></td>
<td>/piN/</td>
<td>/piN/</td>
<td></td>
<td>/KoN/</td>
<td>/KoN/</td>
</tr>
<tr>
<td>flower</td>
<td>-ဗီ</td>
<td>ဗီ</td>
<td>fish</td>
<td>-ဗီ</td>
<td>ဗီ</td>
</tr>
<tr>
<td></td>
<td>/paN/</td>
<td>/pwiN'</td>
<td></td>
<td>/ηα/</td>
<td>/KoN/</td>
</tr>
<tr>
<td>fruit</td>
<td>-ဗီ</td>
<td>ဗီ</td>
<td>bird</td>
<td>-ဗီ</td>
<td>ဗီ</td>
</tr>
<tr>
<td></td>
<td>/θi/</td>
<td>/loN/</td>
<td></td>
<td>/ηεʔ/</td>
<td>/KoN/</td>
</tr>
</tbody>
</table>

3 - Summary and Conclusion

What I intend to show in this article is that Burmese has (at least) two noun categorization devices: an already known and described NUMERAL CLF system and a CLASS TERMS system.

It was easy to show the NUMERAL CLF system used in the language. However, it was more complicated to report on CLASS TERMS (or a NOUN CLF system?).

What emerges from this study is that Burmese has superposed strata of noun classification systems. The examination of the Burmese lexicon reveals that at first this language used classifying prefixes, as did other languages of the family (and of the area?).

However nowadays, three types of classifying prefixes are found in Burmese polysyllabic nouns: reduced and non-motivated syllables phonologically reduced but diachronically analyzable syllables or plain morphemes. These different layers of noun categorization lead us to assume that this classifying structure is old (phonetic erosion of the first syllable), but that it has endured through time.

Subsequently — and we assume more recently— another classifying structure has appeared, similar to the syntactic determination construction: categorizing morphemes (superordinate or generic nouns) are placed at the end of the compound, as are head nouns at the end of the NP. This second categorizing structure conforms better to the canonic word order of the language, i.e. [MODIFIER - HEAD], and may enter into competition with the old structure, as shown by the few doublets of table (29). It may have the potential to develop into a noun CLF system, i.e. a grammatical system. However, while this process is productive, it seems restricted to the usual fields in which languages of the world categorize, i.e. the plant and animal realms.

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35 Determination is marked by the position of the morphemes in Burmese. The occurrence of a relator (genitive) morpheme is optional, and depends on the animacy of the possessor.
Classifier systems or noun categorization devices in Burmese

Table 29: Two names per species involving different structures

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ၬကိ၀ ၁</td>
<td>whale</td>
<td>ၬကိ၀ ၄</td>
</tr>
<tr>
<td></td>
<td>/wela’-ŋa/</td>
<td>/wela’/fish</td>
<td>/ŋa-waN/</td>
</tr>
<tr>
<td>2</td>
<td>ၬကိ၀ ၬအကို ၁</td>
<td>barn howl</td>
<td>ၬကိ၀ ၬအကို ၄</td>
</tr>
<tr>
<td></td>
<td>/liN KoN po-ŋeʔ/</td>
<td>/liN KoN po/-bird</td>
<td>/ŋeʔ-ʃo/</td>
</tr>
<tr>
<td>3</td>
<td>ၬကိ၀ ၬကိ၀ ၄</td>
<td>pelican</td>
<td>ၬကိ၀ ၬကိ၀ ၄</td>
</tr>
<tr>
<td></td>
<td>/waN po-ŋeʔ/</td>
<td>/waN po/-bird</td>
<td>/ŋeʔ-ʃi waN po/</td>
</tr>
</tbody>
</table>

From all this, it follows that Burmese does have different layers of noun categorization using Class Terms as prefixes or suffixes but not yet a grammatical Noun clf device.

The noun categorization devices discussed here are characterized by a certain degree of semantic motivation, a clear lexical origin, and a particular morpho-syntactic behavior. However, regarding the continuum of nominal categorization proposed by Grinevald, Burmese NUMERAL CLFS can be viewed as a grammatical system, whereas the CLASS TERMS are still located on the lexical side of the continuum.

Noun categorization in Burmese warrants more work, including listing carefully all the compounds with reduced syllables, and tackling the question of the relationship between categorization and determination.

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<sup>36</sup> Concerning the “whale” nouns, one of my informants told me that the [CLASS TERM + noun] structure "sounds" older.

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Classifier systems or noun categorization devices in Burmese


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