

F O R E I G N S E R V I C E I N S T I T U T E

THAI

REFERENCE GRAMMAR



D E P A R T M E N T O F S T A T E

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P R E F A C E

Standard Thai, the subject of this reference grammar, is the national spoken language of Thailand and at the same time an educated variety of the dialect of Bangkok, to some extent also of the entire Central Plains region of the country. As such it is the most widely known representative of the Tai language family, which extends from southern China to the Malay peninsula and includes present-day speakers in all the countries of Mainland Southeast Asia. Standard Thai, along with its written counterpart, is known to some extent to nearly all the people of Thailand, and it enjoys some status as secondary language in neighboring countries as well. As is the case with many national languages, it is difficult to state the actual number of native speakers. The usual estimate of 18,000,000 is probably accurate.

The linguist responsible for all phases of the reference grammar project has been Richard B. Noss. The present work is a greatly revised and expanded version of his dissertation, 'An Outline of Siamese Grammar,' Yale, 1954. The original research was made possible by concurrent grants from the Yale Southeast Asia Program and the American Council of Learned Societies. The revision and publication was supported by the U.S. Office of Education through a grant to the Foreign Service Institute. Some of the additional research on which this revision is based was done in Thailand in 1961, when Dr. Noss was serving as a Regional Language Supervisor in Southeast Asia for the Foreign Service Institute.

Names of principal informants consulted for the study will be found in the Introduction (p. 3). They include two other FSI staff members: Mr. Prasert Crupiti and Miss Chotchoi Kambhu.



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TFAI REFERENCE GRAMMAR

O. INTRODUCTION

O.1 Purpose and Method

The purpose of the present work is to outline the main structural features of standard spoken Thai, the official language of Thailand, and also to elaborate by sub-classification and example those structural features which are least covered by existing grammars and dictionaries. In this latter category are the numerous minor form-classes of Thai ('sign-words,' 'functional words,' 'empty morphs,' etc.) consisting of lexical items whose arrangement and conditions of occurrence are not easily described in terms of quickly-understood grammatical labels, and whose largely non-referential meanings are not easily translated, or translatable only in terms so broad as to be almost meaningless. An index of these minor form-class members is provided at the end of the grammar.

The approach to classification of grammatical features attempts to follow current techniques of American descriptive linguistics of the 'item-and-arrangement' school. Certain insights directly attributable to other grammatical techniques (transformational, traditional, etc.) have been exploited, but the results are presented in terms of morphemes and order. From the point of view of general method and specific categories the most useful hints have been gleaned from descriptions of languages with structures similar to Thai. It would be impossible to mention all of them, but two were outstanding in this respect: The work of Charles F. Hockett on Chinese (Peiping) and William A. Smalley's 'Outline of Khmu' Structure.'

O.2. Scope

Standard spoken Thai, the subject of this grammar, is not simply the audible version of a nationally accepted written language. As an oral manifestation, in fact, it has no official sanction of any kind. But it is the language of communications media, the desired if not actual medium of instruction in public schools throughout Thailand, and the prestige dialect, representing the speech habits of the majority of educated speakers, regardless of origin. Those who are not born to it adapt to it, or suffer the consequences. Perhaps even more important, it is what foreigners learn: standard spoken Thai enjoys considerable status as a second language in Laos, and some status even in parts of Cambodia and Burma.

The regional dialect most closely resembling the standard language is that spoken in the geographical area of Thailand called the Central Plain.

This dialect centers around Bangkok, the capital. It extends to the west as far as the Burmese border, and to the southwest at least as far as Ratchaburi; to the north and northeast it is generally bounded by mountains, but can be found as far away as Pitsanuloke; the eastern limit is the Cambodian border, including the whole section of Thailand which is east of the Gulf of Siam. Except for some islands of non-Thai speakers, the central and most populous portion of the country is thus entirely blanketed by native speakers of a dialect close to the standard spoken language.

The principal isoglosses separating the Central Plains dialect from its neighbors to the south, north, and northeast involve the phonetic shapes and phonemic distribution of tones. Consonant and vowel correspondences play an important, but lesser role. There are also considerable differences among the dialects in lexicon, but apparently very few in syntax. At this date it is probably safe to say that no native speaker of Thai within the borders of Thailand proper has much difficulty in understanding either the Central Plains dialect or the standard spoken language, given a short period of adjustment. Ability to speak standard Thai, in all areas, varies with the extent of formal education, social status, and contacts with other groups through work or travel.

On the phonetic level, the principal difference between the standard language and the Central Plains dialect is the /r/ - /l/ distinction. As a legitimate phoneme of a colloquial Thai dialect, /r/ probably does not exist above the Malay peninsula. In the Central Plains dialect, [r] exists only as an unpredictable variant of the /l/ phoneme, alone and in clusters. Most speakers of the standard language make the distinction a phonemic one, but vary as to the lexical items to which /r/ and /l/ are assigned. In the present work the choice between the two phonemes is made arbitrarily, but in accordance with dictionary spellings wherever possible.

0.3. Sources

Two separate periods of field research in Thailand were involved in the preparation of this grammar: 1950-52 and the summer of 1961. The first research work was undertaken with the help of concurrent grants from the Southeast Asia Program of Yale University and the American Council of Learned Societies, and the results were submitted in 1954 as a Yale dissertation entitled 'An Outline of Siamese Grammar.' The second period of research came during a tour of duty by the author as FSI Regional Language Supervisor for Southeast Asia, with a contract between FSI and the Office of Education for the production of a Thai reference grammar as a stimulus. It was decided to take the original dissertation as a basis for the grammar and expand it, and

the summer of 1961 was devoted to testing the analysis, shoring up the weak spots, and collecting further examples.

The specific informants consulted for this study included speakers of the Central Plains (CP) dialect as well as standard (ST) speakers, both in Thailand and the United States. CP informants were interviewed entirely in Thai, and ST informants partly in Thai and partly in English. A list of the principal informants follows with their backgrounds and time and place of interviews indicated.

1. Mr. Han Dittum, student at Royal Military Academy, Bangkok, 1951-52 (CP, Ayuthya Province)
2. Miss Chaluay Kanchanagama, Faculty of Arts, Chulalongkorn University, Bangkok, 1951-52 (ST)
3. Mr. Chote Raktiprakara, graduate student, Yale University, New Haven, 1953-54 (ST)
4. Mrs. William J. Gedney, wife of American linguist, Bangkok, 1951-52, and New Haven, 1954. (CP, Ayuthya Province)
5. Mrs. Churee Indaniyom, employee of AUA Language Center, Bangkok, 1961 (ST)
6. Mr. Prasert Crupiti, instructor, FSI Language School, Washington, 1962-63 (CP, Chantaburi Province, and ST)
7. Miss Chotchoi Kambhu, instructor, FSI Language School, Washington, 1962-63 (ST)

Of modern descriptive work on Thai, the most frequently consulted publications have been those of Mary R. Haas, especially her Spoken Thai (with Heng R. Subhanka, Henry Holt and Co., 1945). Many original conclusions of Dr. Haas, including the broad outline of phonemic analysis itself, of necessity recur in the present work, and it is impossible to determine which parts of the analysis are original here and which are merely logical extensions of conclusions implicit in her pedagogical work. The same could be said of the unpublished but equally valuable suggestions of Dr. William J. Gedney, whose guidance in the original research project and later has considerable relevance to whatever appears on these pages.

A number of descriptive studies of Thai by linguistically-oriented Thai speakers, some of them graduate students at American universities, have been done recently, but their findings have not been incorporated, explicitly or implicitly, in the present work.

CHAPTER I

PHONOLOGY

1.1. Background

In general, the phonemic analysis of the segmental features of standard spoken Thai (ST) follows the solution proposed by Haas and Subhanka in Spoken Thai (1945). This choice was made for two reasons: 1) the solution is basically sound, and differs only minimally, and in mutually convertible fashion, from any more economical alternative solution (such as the one proposed in Outline of Siamese Grammar), and 2) as a transcription system for ST, it has already achieved a wide acceptance, and occurs in a number of other publications on Thai (including the FSI Basic Course). The only departures, as far as symbolization is concerned, are the writing of long vowels with double vowel symbols instead of vowels plus raised dot, as in Spoken Thai, the absence of a symbol for glottal stop (written /ʔ/ in Spoken Thai, determined by the presence of stress in the present analysis) and the writing of short diphthongs with /-ə/ instead of /-aʔ/.

The important departures from the Haas analysis involve prosodic features: tones, stress, rhythm, and intonation. The present analysis proposes six ST tones, instead of five. But even here, the four Haas tone symbols, plus the unmarked tone, have been retained to correspond with five of the six tones; only one new tone symbol, /~/, has been added. For the remaining prosodic categories, the Spoken Thai system has no symbolization, except perhaps the ambiguous implications of space or lack of space between syllables, and undefined punctuation marks. The symbols used here for stress, rhythm, and intonation phenomena, then, are all new and correlate with specific phases of the complete phonemic analysis which follows.

1.2. Summary

1.2.1. Phonological Units

Within the ST utterance, the following phonologically significant subdivisions occur: the clause, the phrase, and the syllable. Clauses are characterized by intonation contours and junctures, of which there are two types each. Phrases are characterized by rhythmic patterns, involving relative syllable-durations of six distinct kinds. Syllables are characterized by stress contours, of which there are six types. Phonemes of all the above categories are prosodic phonemes.

Within the syllable, there are four types of component: initial, nucleus, final, and tone. Consonant phonemes result from the analysis of initial and final components, vowel phonemes from nuclear components, and tone phonemes from tonal components. These are all syllabic phonemes.

In the summary and the individual phoneme listings, syllabic contrasts are presented first, followed by prosodic contrasts.

1.2.2 Initial Contrasts

There are twenty contrasting initials of one segment each, eleven common initials of two segments each, plus zero initial, making a total of 32 contrasts.

/bâa/	'crazy'	/laa/	'donkey'
/pâa/	'forest'	/râab/	'flat'
/prâab/	'subdue'	/caan/	'plate'
/plaa/	'fish'	/chaam/	'bowl'
/phâa/	'cloth'	/jaa/	'medicine'
/phraan/	'hunter'	/kaa/	'teapot'
/phlâad/	'slip'	/krâab/	'prostrate'
/fâa/	'sky'	/klâa/	'bold'
/maa/	'come'	/kwâa/	'more'
/dâa/	'curse'	/khraaw/	'occasion'
/taa/	'eye'	/khlâaj/	'similar'
/traa/	'stamp'	/khwâa/	'right side'
/thaa/	'daub'	/hâa/	'five'
/sâam/	'three'	/ŋaa/	'tusk'
/naa/	'field'	/âa/	'open the jaws'

1.2.3. Nuclear Contrasts

There are nine contrasting nuclei of one segment each (short vowels), nine geminate two-segment nuclei (long vowels), and five nuclei consisting of different segments (diphthongs), for a total of 23 contrasts. Three diphthongs are long (those ending in /a/), and two are short (ending in /ə/). There is no zero nucleus.

Long NucleiShort Nuclei

/liŋg/	'bypass'	/phliŋg/	'turn over'
/riŋag/	'call'	/kié/	'wooden shoes'
/lêeg/	'number'	/lég/	'small'
/lêeg/	'exchange'	/kêg/	'sharp sound'
/lyym/	'forget'	/lýg/	'deep'
/lÿag/	'choose'		
/lêeg/	'quit'	/ŋen/	'silver'
/lâag/	'haul'	/lâg/	'steal'
/lûug/	'child'	/lûg/	'get up'
/lûag/	'parboil'	/cúeg/	'pure-white'
/lôog/	'world'	/nóg/	'bird'
/lôog/	'peel'	/kò/	'island'

1.2.4. Final Contrasts

There are eight common contrasting finals of one segment each, plus zero final, making a total of 9 contrasts.

/dàb/	'extinguish'	/dàd/	'straighten'	/dàg/	'net'
/dam/	'black'	/dan/	'push'	/danj/	'loud'
/daw/	'guess'	/dà/	'plunge ahead'	/daj/	'any'

1.2.5 Tonal Contrasts

There are six contrasting tones, four of them relatively level in contour, one falling, and one rising. There is no zero tone.

LevelOblique

/khãw/	'he'	/khãw/	'enter'
/kháw/	'feature'		
/khaw-rób/	'respect'	/khãw/	'hill'
/khàw/	'knee'		

1.2.6. Stress Contrasts

There are six contrasting stress contours occurring on individual syllables, three of them sustained (level of loudness peaking toward middle, then dying out slowly) and three diminishing (level of loudness greatest at beginning of syllable, dying out rapidly).

<u>Sustained</u>		<u>Diminishing</u>	
/!maa:/	'Of course (it) came!'	/!maa/	'C'mere!'
/'maa:/	'(It) came, (but)'	/'maa/	'(It) came.'
/maa:/	'..., Mah.'	/maa/	'up to now.'

(The last two examples, with the translations 'Mah,' a man's name used vocatively, and 'up to now,' a functional word that follows verbs, do not occur in isolation as do the first four examples.)

1.2.7. Rhythmic Contrasts

There are six distinguishable degrees of relative syllable-length within an utterance, three of which are determined by stress and intonation features, two of which are in contrast, plus the shortest length which is interpreted as zero duration. The first five relative durations are illustrated with a syllable /'m11/ taken from larger contexts, in descending order of length.

/'m11:↑./	'Yes, there <u>are</u> .'
/'m11./	'There are.'
/'m11: naa./	'There are, you know.'
/'m11 'naa./	'There are fields.'
/'m11-'naa./	'The month of March.'

The last two examples illustrate direct rhythmic contrast. Zero duration occurs in the syllable /m1/ in the following:

/'thŷŋ-m1'naa./ 'Until March.'

1.2.8 Intonational Contrasts

Portions of utterances have two contrasting types of intonation contour: 1) high pitch-line, in which the absolute pitch-range of each kind of tone remains roughly the same from one end of the clause to the other, and is relatively high, and 2) falling pitch-line, in which the absolute pitch-range drops steadily. The effect is most easily audible

when all syllables in the utterance-portion have the same tone (in this case mid tone):

- 1) 'chaaw-'naa kam-laŋ 'jɪŋ 'plaa naj-'khuu ↑.
'The farmer is shooting the fish in the pond!'
- 2) 'chaaw-'naa kam-laŋ 'mooŋ 'plaa naj-'khuu.
'The farmer is looking at the fish in the pond.'

The second contour is analyzed as zero intonation.

Utterance-portions are separated in two ways: 1) by resumption of pitch-line at a lower level, 2) by resumption of the pitch-line at a higher level. When the first portion has falling pitch-line, and the resumption is at a low level, there must be pause /·/; otherwise a single intonation contour results. The same is true of a high-pitch-line portion with resumption at a high level.

In the following pair of utterances, the utterance-portions are identical (all have falling intonation), and the contrast is in the juncture alone. Example 1) is 'close juncture,' written /·/, and Example 2) is 'open juncture,' written /·↑/.

- 1) 'sɣa tua-'nɪɪ: rɛə . khun 'sàj 'mɣa-khyyn-'nɪɪ.
'Is this the coat you wore last night?'
- 2) 'sɣa tua-'nɪɪ: rɛə .↑ khun 'sàj 'mɣa-khyyn-'nɪɪ.
'Is this the coat? You wore it last night.'

Since both portions may have either of the two intonation contours, and the separation may be by either of the two junctures, there are eight possible intonation-sequences for this particular pair of utterance portions (see 1.6.3).

1.3. Consonants

1.3.1. General

The 21 consonant phonemes of ST are defined schematically as follow:

	<u>Labial</u>	<u>Dental</u>	<u>Palatal</u>	<u>Velar</u>	<u>Other</u>
Unaspirated					
Lenis Stops	/b/	/d/		/g/	
Aspirated					
Lenis Stops	/ph/	/th/	/ch/	/kh/	
Fortis Stops	/p/	/t/	/c/	/k/	
Nasal Continuants	/m/	/n/		/ŋ/	
Oral Continuants	/w/	/l/	/j/		/r/
Spirants	/f/	/s/			/h/

All consonant phonemes except /g/ are in contrast in initial position. The oral continuants /w/, /l/, and /r/ are in multiple contrast as second members of initial clusters. All the unaspirated lenis stops /b d g/, all the nasal continuants /m n ŋ/, and two of the oral continuants, /w/ and /j/, are in multiple contrast in final position. Other consonants occur infrequently as second members of clusters and in final position; these occurrences are noted as 'rare' under the individual phoneme headings.

Fortis glottal stop [ʔ] occurs in both initial and final positions, but is not a phoneme. Its initial occurrence is determined by the onset of either stress phoneme, /' / or /!/, on any vowel nucleus (i.e., when no other initial consonant is present); its final occurrence is determined by the cessation of either stress phoneme on any short vowel nucleus (i.e. when no other final consonant is present, and the vowel is short).

1.3.2. Allophonic Sets

Certain allophonic generalizations are applicable to whole sets of consonants in certain environments:

1) The final consonants listed as 'unreleased,' /b, d, g/, are slowly released and may partly overlap with a following sound; they are completely unreleased before /./.

2) The other final consonants, /m n ŋ w j/, have weak, short allophones after long vowels and strong, long allophones after short vowels.

3) The fortis stops /p t k/ (but not /c/), the nasals /m n ŋ/, and the spirants /f s h/ are slightly velarized before the high vowels /i y u/, other initial consonants partly assimilate to these vowels.

4) All initial consonants listed as 'voiceless' may be partially voiced in rapid speech when they follow a voiced sound and precede an unstressed vowel: e.g. /ph/ in /'fãa-pha'nãŋ/ 'wall' and /t/ in /'aw-ta'puu/ 'take a nail.'

5) All final consonants listed as 'voiced' approach voicelessness at the end of a syllable with loud diminuendo stress: /j/ in /!pa.j./ 'Let's go.'

6) The consonants which occur as second members of clusters, /w l r/, are voiced after unaspirated stops but voiceless (at least at the beginning) after aspirated stops: /'plɛɛ/ 'translate' (voiced /l/), /'phlěɛ/ 'wound' (voiceless /l/).

1.3.3. Labial Consonants

/b/ Unaspirated lenis stop.

Always bilabial, with full closure. As initial - fully voiced, with voice beginning well before closure is released: /'bâa/ 'crazy.' Under heavy stress, and occasionally under normal stress, slightly impositive: /!bâa:/. (Variant: pre-nasalized.)

As final - unreleased, normally voiceless: /'râb/ 'take.' Occasionally voiced, especially after long, high vowel: /'rîib/ 'hurry.' First in cluster (rare) -- voiced: /'brÿy/ 'extremely fast.'

/ph/ Aspirated lenis stop.

As initial-voiceless, always bilabial, with complete or near-complete but loose closure: /'phâa/ 'cloth.'

First in cluster - same, with less aspiration: /'phrɛɛ/ 'silk cloth.'

/p/ Fortis stop.

As initial-voiceless, unaspirated. Bilabial, with closed lips held tightly against teeth for sharp, clean release: /'pâa/ 'aunt.' Variant, for some speakers: labio-dental stop.

First in cluster - same: /'plaa/ 'fish.'

/m/ Nasal continuant.

Always bilabial, with full closure. As initial - fully voiced, fortis, with lips against teeth (percussion from release sometimes audible): /'maa/ 'come.'

As final - lenis, voiced strongly: /'dam/ 'black,' weakly: /'chaam/ 'bowl,' partly voiceless: /âj !dam/ (calling a dog named 'Blackie.')

/w/ Oral continuant.

Normally bilabial, with at least some aperture, lenis. As initial - fully voiced, with narrow aperture and simultaneous dorsal humping (but no protrusion of lips as in /uu/): /'wâa/ 'say.' Often has audible friction, especially before high vowels: /'wîi/ 'comb.' Second in cluster - same, overlapping first member of cluster, but without dorsal humping, voiced: /'kwâa/ 'more,' partly voiceless, some friction: /'khwâa/ 'right side.'

Variant for some speakers, first two positions only:
voiced labiodental spirant. As final - with wider aperture,
less dorsal humping, some protrusion, no friction, voiced
strongly; /'raw/ 'we,' weakly: /'raaw/ 'approximately,' partly
voiceless: /!aw/ 'Take it!'

/f/ Spirant.

Voiceless, high-friction, normally labio-dental. As initial - fortis: /'fáa/ 'sky.' Variant for a few speakers:
bilabial, with very narrow aperture. As final (rare) - lenis:
/'chēef/ 'Chevrolet.' First in cluster (rare) - lenis, less
friction: /'frɪɪ/ 'without cost.'

1.3.4. Dental Consonants

/d/ Unaspirated lenis stop.

Broad tongue-tip contact with backs of upper teeth; tip
may also touch gums.

As initial - fully voiced, with voice beginning well before
tongue-tip is withdrawn: /'dàa/ 'curse.' Under heavy stress,
and occasionally under normal stress, slightly implosive: /'dɪɪ:/
'Sure, it's good!' (Variant: pre-nasalized.)

As final - unreleased, normally voiceless: /'róð/ 'car.'
Occasionally voiced, especially after long high vowel: /'mýyd/
'dark.' First in cluster (rare) voiced: /'dráj/ 'drive (golf
or automatic transmission)'

/th/ Aspirated lenis stop.

As initial - voiceless, always apico-dental, with complete
but loose contact: /'thâa/ 'landing-place.'

First in cluster (rare) - same, with less aspiration:
/'thruu-'meen/ 'Truman.'

/t/ Fortis stop.

Voiceless, unaspirated.

As initial - apico-dental, with tip held tensely against
teeth for sharp, clean release: /'taa/ 'eye.'

Variant, for some speakers: interdental stop. First in
cluster: -apico-alveolar: /'traa/ 'stamp.'

/n/ Nasal continuant.

Always apico-dental, with broad contact. As initial - fully voiced, fortis, with firm contact against teeth: /'nâa/ 'face.'

As final - lenis, voiced strongly: /'kan/ 'to ward off,' weakly: /'kaan/ 'affairs,' partly voiceless: /'dan/ 'Push!'

Allophone in close juncture with initial /l/ in following syllable - nasalized lateral: /'phǒn-lǎ'máaj/ 'fruit.'

Allophone in close juncture with initial /r/ in following syllable - nasalized apico-alveolar flap: /'man-rǎ'jâad/ 'manners.'

Allophone in close juncture with initial /j/ in following syllable - palatal nasal: /'pan-'jaa/ 'brains.'

/l/ Oral continuant.

Normally apico-dental lateral, with aperture on both sides of tongue, lenis.

As initial - fully voiced, no audible friction, no dorsal humping: /'laa/ 'donkey.'

Second in cluster - same, overlapping first member of cluster, voiced: /'plaa/ 'fish,' partly voiceless, some friction: /'phleen/ 'song.'

Variant for some speakers, first two positions only: apico-alveolar lateral.

As final (rare, few speakers) - apico-dental lateral. /'bil/ 'Bill.'

/s/ Spirant.

Voiceless, high-friction, normally apico-dental groove. As initial - fortis: /'sǎam/ 'three.'

As final (rare) - lenis: /'nís-'sǎj/ 'characteristics.'

First in cluster (rare) - lenis, less friction: /'staaj/ 'money.'

1.3.5. Palatal Consonants

/ch/ Aspirated lenis stop (or voiceless spirant).

Initial position only. Voiceless, normally with loose contact of tongue-blade with forward portion of hard palate: /'chaam/ 'bowl.'

Variant: slit spirant in same position.

Variant: palatalized apico-alveolar stop.

/c/ Fortis stop

Initial position only. Voiceless, unaspirated, with firm contact of tongue-blade and hard palate: /'caan/ 'dish.'

Variant: palatalized apico-alveolar stop.

/j/ Oral continuant.

Normally high-front semivowel, lenis.

As initial - fully voiced, with narrow aperture extending over wide area: /'jaa/ 'medicine.' Often has audible friction, especially before high vowels: /'jîi- 'sib/ 'twenty.'

Variant for some speakers: voiced palatal spirant.

Second in cluster (rare) - same, overlapping first member of cluster, voiced or voiceless: /'phjaa/ (title).

As final - with wider aperture, no friction, voiced strongly: /'paj/ 'go,' weakly: /'bâaj/ 'afternoon,' partly voiceless: /!paj/ 'Let's go!'

1.3.6. Velar Consonants

/g/ Unaspirated lenis stop.

Final position only. Dorsal contact in mid-velar area, unreleased, normally voiceless: /'râg/ 'love.' Occasionally voiced, especially after long high vowel: /'lûug/ 'child.'

/kh/ Aspirated lenis stop (or voiceless spirant).

As Initial - voiceless, with complete or near-complete but loose closure in mid-velar area: /'khâa/ 'kill.'

First in cluster - same, with less aspiration: /'khruu/ 'teacher.'

Variant (both positions): voiceless velar affricate.

Variant (both positions): voiceless velar spirant.

/k/ Fortis stop.

As initial - voiceless, unaspirated. Mid-velar, with back of tongue held firmly in contact until sharp, clean release: /'kaa/ 'crow.'

First in cluster - same: /'klaan/ 'middle.'

/ŋ/ Nasal continuant.

Always mid-velar, with dorsal contact.

As initial - fully voiced, fortis, with firm contact over broad area: /'ŋaa/ 'tusk.'

As final - lenis, voiced strongly: /'loŋ/ 'go down,' weakly: /'klaaŋ/ 'middle,' partly voiced: /'loŋ/ 'Get down!'

1.3.7. Other Consonants

/r/ Alveolar oral continuant.

Normally apico-alveolar flap, with grooving of tongue, lenis.

As initial - fully voiced, little or no friction: /'raaŋ/ 'case.'

Second in cluster - same, overlapping first member of cluster, voiced: /'traa/ 'stamp,' partly voiceless, more friction: /'phrae/ 'silk cloth.'

Variant (both positions): voiced retroflex spirant with low friction.

/h/ Glottal spirant.

Normally a voiceless, low-friction spirant.

As initial - fortis. /'hâa/ 'five.'

As final (rare) - lenis: /nãh/ (final particle).

Variant (both positions): voiceless vowel of same position as contiguous voiced vowel.

1.4 Vowels

1.4.1 General

The 9 vowel phonemes of ST are defined schematically as follows:

	<u>Front</u>	<u>Back Unrounded</u>	<u>Back Rounded</u>
High	/ɪ/	/y/	/u/
Mid	/e/	/ə/	/o/
Low	/ɛ/	/a/	/ɔ/

All vowel phonemes are in contrast in the nuclear position of the syllable (between consonants). All types occur both long and short, the long nuclei being interpreted here as two instances of the corresponding short vowel phoneme: /ɪɪ/, /ee/, etc.

There are five nuclear diphthongs, three long and two short. The long ones are analyzed as instances of single high-vowel phonemes plus /a/, the short ones as high-vowel phonemes plus /ə/.

Long:	/ɪa/	/ya/	/ua/
Short:	/ɪə/		/ue/

1.4.2 Allophonic Sets

Certain allophonic generalizations are applicable to whole sets of vowels in certain environments:

1) All vowel nuclei consisting of two instances of the same phoneme (called 'double' in the listing of allophones by phoneme below) average longer in duration than the vowel phoneme by itself (called 'single' below), but less than twice as long.

2) The long diphthongs /ɪa, ya, ua/ average slightly longer than double vowels (e.g. /ɪɪ, yy, uu/), and over twice as long as single vowels (e.g. /ɪ, y, u/).

3) The short diphthongs /ɪə, uə/ average slightly longer than single vowels, but shorter than double vowels.

4) The high double vowels /ɪɪ, yy, uu/ start with a glide from mid central position after all fortis initial consonants except /c/. The effect is less noticeable with the corresponding short vowels /ɪ, y, u/.

5) All high and mid vowels have tenser allophones, generally speaking, in long nuclei, and laxer allophones in short nuclei.

6) All low vowels have laxer allophones in long nuclei, and tenser allophones in short nuclei. They are also nasalized after /h/, nasal consonants, and zero initials: /'hèɛ/ 'parade,' /'maa/ 'come,' and /'òɔg/ 'exit.'

1.4.3. Vowel Phonemes

/ɪ/ High front vowel.

Double - tense upper high front, unrounded: /'dɪɪ/ 'good,' after fortis consonant (except /c/) glide from central to front: /'sɪɪ/ 'four.'

Single - same quality as double before /w/ and zero final: /'nɪw/ 'finger,' /'tɪ/ 'criticize,' but lax and slightly lower before other finals: /'tɪd/ 'get stuck.'

Before /a/ - long lax (no glide after fortis consonants): /'sɪa/ 'lose.'

Before /ə/ - short tense: /'kɪə/ 'wooden shoes.'

/e/ Mid front vowel.

Double - tense upper mid front, unrounded: /'thee/ 'pour.'

Single - same quality before zero final: /'tè/ 'kick,'
lax and somewhat lower before other finals: /'pen/ 'alive,'
centralized before /w/: /'rew/ 'fast.'

/ɛ/ Low front vowel.

Double - lax upper low front, unrounded, slightly centering: /'kèɛ/ 'old,' after /h/, nasal, or zero initial, slightly nasalized: /'mêɛ/ 'mother.'

Single - same quality before zero final, but tense: /'kè/ 'sheep,' lax and less central before other finals: /'khěŋ/ 'hard.'

/y/ High back unrounded vowel.

Double - tense mid-high, between central and back: /'dây/ 'stubborn,' after fortis consonant, upward glide: /'myy/ 'hand.'

Single - lax and slightly lower: /'dyn/ 'pull.'

Before /a/ - long lax (no glide after fortis consonants): /'sÿa/ 'tiger.'

/ə/ Mid back unrounded vowel.

Double - tense lower mid, between central and back: /'dœn/ 'walk,' all the way back before /j/: /'lœɔj/ 'to pass.'

Single - same quality as double, /'ŋen/ 'silver,' /'jé/ 'a lot.'

After /ɹ/ and /u/ - fast mid central glide: /'kiə/ 'wooden shoes, /'cúeg/ 'pure-white.'

/a/ Low back unrounded vowel.

Double - lax lower low central: /'taa/ 'eye,' after /h/, nasal, or zero initial, nasalized: /'hâa/ 'five.'

Single - same quality before zero final, but tense: /'kà/ 'estimate,' lax and slightly higher before other finals: /'kan/ 'ward off,' further front before /j/: /'paɔj/ 'go,' further back before /w/: /'raw/ 'we.'

After /ɹ/, /y/, and /u/ -before zero final, slow glide to low central position: /'tua/ 'body,' before other finals, faster

glide through higher central position (but not as high as /e/): /'dûaj/ 'also,' /'rian/ 'study,' /'lÿag/ 'choose.'

/u/ High back rounded vowel.

Double - tense upper high, far back: /'duu/ 'look at,' after fortis consonant, glide from central to back: /'tûu/ 'chest.'

Single - same quality as double before /j/ and zero final: /'khuɟ/ 'converse,' /'dù/ 'savage,' but lax and slightly lower before other final: /khun/ 'you.'

Before /a/ - long lax (no glide after fortis consonants): /'tua/ 'body.'

Before /e/ - short tense: /'cûeg/ 'pure-white.'

/o/ Mid back rounded vowel.

Double - tense upper mid back, far back: /'too/ 'big.'

Single - same quality before zero final: /'tó/ 'table,' lax and somewhat lower before other finals: /'tôn/ 'trunk of plant,' centralized before /j/: /doɟ/ 'by means of.'

/ɔ/ Low back rounded vowel.

Double - lax upper low, between back and central: /'kòɔ/ 'instigate,' after /h/, nasal, or zero initial, nasalized: /'hòɔ/ 'package.'

Single - same quality before zero final, but tense: /'kò/ 'island,' lax and less central before other finals: /'hôn/ 'room.'

1.5 Tones

1.5.1 General

The 6 tone phonemes of ST are defined as follows:

<u>Level Tones</u>	<u>Oblique Tones</u>
Plain High /~/	Falling / ^/
Constricted High /' /	
Mid (unmarked)	Rising / ~'/
Low /`/	

As far as isolated syllables are concerned, all six tones are in contrast only on syllables with sustained loud stress: /! :/. In the environment /.' ./, for example, there is no contrast between mid and low

tones, which are distinguishable to most speakers only with reference to tones of surrounding syllables. In many other environments, there is no contrast between the two high tones (plain high tone having a very low functional yield.)

No tone is determined, and the absence of any symbol for mid tone in a stressed syllable is merely a graphic convenience. In unstressed syllables of short duration, however, the absence of a tone symbol actually means zero tone: /caphûud/ 'will speak' (first syllable).

1.5.2 Allophonic Sets

Certain generalizations are applicable to all tones insofar as their allophones are concerned:

- 1) Tone contours are longer under any type of sustained stress, or before pause, than they are under normal stress conditions in the interior of a phrase. Unless a particular allophone of a tone has other peculiarities under these circumstances, no separate listing of the allophone is made.
- 2) The actual pitch-range of a given tone is determined by its place on the 'pitch-line' of the intonation contour of its clause (1.2.8); all indications of pitch contour are given in reference to a relative median pitch, which is the level of mid tone at that particular place on the pitch-line. No allophones are listed for tone phonemes in different positions of the clause.
- 3) The actual length of a given tone contour is determined by the rhythm of its phrase (1.2.7), as well as the type of stress, no allophones are listed for tone phonemes in different positions of the phrase.

1.5.3. Tone Phonemes

/~/ Plain high tone.

Normal stress - level contour, beginning and ending above median pitch, no constriction: /'chăn/ 'I, me.'

Loud sustained stress - contour beginning at a very high pitch and rising still higher: /! tãaj:/ (exclamation.)

Other sustained stress-- contour beginning just above median pitch, rising slightly, then falling off gently: /'fôn 'tòg 'sũ:/ 'raining steadily,' /'paj nãa:/ 'Come on and go, will you?'

Weak stress - short high level contour /'dii: nãg/ 'too good.'

// Constricted high tone.

Normal stress - level or slightly rising contour, beginning and ending above median pitch, constricted throughout voiced portion of syllable, glottalized toward end if no stop present: /'chán/ 'shelf', /'chád/ 'clear,' dropping slightly toward end before pause /'róon./ 'It's hot.'

Loud sustained stress - contour beginning at a higher pitch, rising sharply and falling off gradually, constricted throughout: /!róon:/ 'It's hot!'

Weak stress - contour same as for normal stress, but cut off by glottal stop or shortening of nucleus: /'dii: léew/ 'O.K. then,' /'dâj : wáj/ 'had gotten.'

/ / (unmarked) Mid tone.

Normal stress - level contour, beginning and ending near median pitch, no constriction: /'maa/ 'come,' dropping very slightly toward end before pause: /'maa./ 'Came.'

Loud sustained stress - contour beginning at median pitch, rising and falling gradually: /!maa:/ 'Of course (he) came!'

Weak stress - contour beginning at median or lower pitch, voice dying out rapidly: /'dâj : maa/ 'got.'

Loud stress - contour same as for normal stress, but cut off by voicelessness before end: /!paj/ 'Let's go!'

/`/ Low tone.

Normal stress - level contour, beginning and ending slightly below median pitch, no constriction (indistinguishable from mid tone in isolation): /'phâa/ 'split,' dropping very slightly toward end before pause: /'phâa./ 'It split.'

Loud sustained stress - contour low level at first, sliding upward toward end (distinguishable from mid tone allophone of this type): /!jàa:/ 'Don't do it!'

Weak stress - contour beginning at median or lower pitch, voice dying out rapidly (same as mid tone): /'maa 'nîi : koon/ 'Come here a moment.'

/^/ Falling tone

Normal stress - contour beginning just below pitch-level for the two high tones, rising quickly above that level, then falling rather

sharply to median pitch or below, with slight constriction throughout: /'nâa/ 'front,' dropping less sharply all the way to low-tone pitch-level before pause: /'nâa./ 'It's in front.'

Loud sustained stress - contour starting higher than high-tone level, rising, then dropping with increasing speed and constriction, all the way to low-tone level or below: /!dâaj:/ 'Of course it's possible!'

Weak stress - contour falls from high-tone level very slightly, with little constriction: /mâj 'mii/ 'There aren't any.'

Loud stress - contour more rapid than for normal stress, but cut off by voicelessness toward end: /!âaw/ 'For heaven's sake!'

/ˇ/ Rising tone.

Normal stress - contour beginning just above pitch-level for low tone, dipping quickly below that level, then rising rather sharply almost to high-tone level, no constriction: /'nâa/ 'thick,' rising less sharply to a point just above median pitch before pause: /'nâa./ 'It's thick.'

Loud sustained stress - contour starting lower than low-tone level, no constriction: /!nâa:/ 'Of course it's thick!'

Weak stress - contour begins at median pitch or above and rises only slightly: /phõm 'mii/ 'I have it.'

1.6. Prosodic Phonemes

1.6.1. General

To some extent prosodic phonemes are distributionally interrelated, in the same way that syllabic phonemes are. Stress phonemes have a special relationship with both rhythm and intonation phonemes, and the latter have some relationship with each other (see 1.7.4). It is nearly feasible, in fact, to combine stress and rhythm contrasts into a single type of phoneme, just as initial and final syllable-contrasts are combined into consonant phonemes.

Stress phonemes have to do with the (already-defined) syllable, rhythm phonemes with the phrase (defined in 1.6.4, end), and intonation phonemes with the clause (defined in 1.6.3 end). The order of presentation, however, is stress, intonation, then rhythm. Prosodic phonemes do not usually have allophones in the sense that syllabic phonemes do. One exception is the intonation phoneme /↑/, which has positional variants (see 1.6.3).

1.6.2. Stress Phonemes

The six stress-contours of ST syllables are analyzed in terms of three phonemes and their combinations:

Loud Onset /!/
Sustained Contour /:/
Normal Onset /'/'

The symbols for onset phonemes are written at the beginning of the syllable in question; absence of any symbol here indicates weak onset (not a phoneme). The symbol for the sustained contour phoneme is written at the end of the syllable; absence of a symbol here indicates diminishing stress (not a phoneme).

The six possible stress-contours are illustrated as follows, using the syllable /paɟ/ for contrastive purposes:

- 1) Loud Diminishing Stress /!paɟ/ 'Let's go!'
- 2) Loud Sustained Stress: /!paɟ:/ 'Sure (he) went!'
- 3) Normal Diminishing Stress: /'paɟ/ 'Yes (he) went.'
- 4) Normal Sustained Stress: /'paɟ: kan/ 'They went.'
- 5) Weak Diminishing Stress: /'òɔg: paɟ/ '(He) went out.'
- 6) Weak Sustained Stress: /'òɔg paɟ: khráb/ '(He) went out, sir.'

1.6.3. Intonation Phonemes

The eight possible intonation-sequences for a single pair of utterance-portions are analyzed in terms of only two phonemes and their combinations:

Pause ./ /
Upper pitch-line /↑/

The symbol for the pause phoneme is written wherever it occurs; its absence implies continuous phonation throughout a sequence. The symbol for upper pitch-line, written by itself /↑/ or after pause ./ ↑ /, means a new intonation contour beginning on a high pitch-line; absence of /↑/ after pause implies resumption of the pitch-line at a low level. The same symbol written before pause /↑./ means high pitch-line intonation contour; its absence in this position implies falling pitch-line intonation contour. The combination /↑.↑/ occurs, meaning high intonation contour followed after pause by new intonation contour beginning at original pitch-line (which is the same or higher than the end of the first contour). The combination /↑↑/ does not occur.

The symbol /.../ is used to replace ./ / whenever an utterance is obviously broken off short of completion of the portion in question. The symbol /.../ has no phonemic status.

The eight intonation sequences are illustrated as follows, using identical constituents for contrastive purposes. Portions separated by /.↑/ or /↑/ are said to be in open clause juncture; those separated by ./ are said to be in close clause juncture.

- 1) Two falling contours in close juncture:
'syā tua-'ní: rěe . khun 'sàj 'mýa-khyyn-'ní .
'Is this the coat you wore last night?'
- 2) Two falling contours in open juncture:
'syā tua-'ní: rěe . ↑ khun 'sàj 'mýa-khyyn-'ní .
'Is this the coat? You wore it last night.'
- 3) High and falling contours in close juncture:
'syā tua-'ní: rěe ↑ . khun 'sàj 'mýa-khyyn-'ní .
'Is this the coat you wore last night?'
- 4) High and falling contours in open juncture:
'syā tua-'ní: rěe↑.↑ khun 'sàj 'mýa-khyyn-'ní .
'Is this the coat?! You wore it last night.'
- 5) Falling and high contours in close juncture: (rare):
'syā tua-'ní: rěe . khun 'sàj 'mýa-khyyn-'ní: ↑ .
'Is this the coat you wore last night?!
More common would be the single-clause transform:
'khun 'sàj 'syā tua-'ní 'mýa-khyyn-'ní: rěe ↑ .
- 6) Falling and high contours in open juncture:
'syā tua-'ní: rěe . ↑ khun 'sàj 'mýa-khyyn-'ní: ↑ .
'Is this the coat? You wore it last night!'
- 7) Two high contours in close juncture:
'syā tua-'ní: rěe ↑ . khun 'sàj 'mýa-khyyn-'ní ↑ .
'Is this the coat you wore last night?!'
- 8) Two high contours in open juncture:
'syā tua-'ní: rěe ↑ . ↑ khun 'sàj 'mýa-khyyn-'ní: ↑ .
'Is this the coat?! You wore it last night!'

A phonemic clause is any portion of an utterance which has its own intonation contour or is separated from the rest of the utterance by one of the clause junctures. All the utterances above consist of two clauses. The following utterances consist of single clauses:

's̆ya tua-'nii: r̆e 'khun 'sàj 'm̆ya-khyyn-'nii .

'Is this the coat you wore last night?'

's̆ya tua-'nii: r̆e 'khun 'sàj 'm̆ya-khyyn-'nii: ^.

'Is this the coat you wore last night?'

(In meaning, they correspond respectively to the two-clause utterances 1) and 7) above.)

1.6.4. Rhythm Phonemes

The rhythmic patterns of ST sequences are analyzed in terms of two phonemes already mentioned, the intonation phoneme / . / (pause) and the stress phoneme / : / (sustained stress), plus two new phonemes which have to do with the relative duration of syllables not immediately followed by / . / or / : /; such syllables are internal. Syllable-duration is defined as the time elapsed between the beginning of the syllable in question and the beginning of the next syllable in the utterance, regardless of whether any phonation is going on or any sound being produced. Thus, a weak-stressed syllable with a short vowel and a voiceless final stop, such as /nãg/ 'too' may have greater duration within a given sequence than a loud sustained-stressed syllable with voicing from beginning to end, such as /!róon:/ 'It's hot!'

The last syllable in an utterance, of course, has infinite duration. The other phonemes and combinations are listed in descending order of duration, as follows.

The combination / : . / determines extra-long duration for the syllable which precedes. It is never internal.

/ . / determines medium-long internal-syllable duration.

/ : / determines long-duration, never internal

/ / (space after syllable) is a phoneme meaning medium internal-syllable duration.

/ - / (hyphen after syllable) is a phoneme meaning medium-short internal-syllable duration.

The absence of a hyphen or space after an internal syllable implies short duration (not a phoneme).

The four internal-syllable durations are contrasted in the following pairs of examples:

- 1) 'pa_j 'nǎ_j: 'dii ↑.
 'Where are you going, Dee?'
 'pa_j 'nǎ_j 'dii: ↑.
 'Where shall I go?'
- 2) 'náam 'thâa-ca'mòd .
 'The water seems to be all gone.'
 'náam-'thâa ca'mòd .
 'The water will be used up.'
- 3) 'dâ_j kawē-'laa .
 'Has to do with time.'
 'dâ_j- 'kà we-'laa .
 'Has estimated the time.'

A phonemic phrase is that portion of a clause which contains only one sustained stress / : /. In a clause consisting of two or more phrases the cut is made immediately before the next syllable after the / : / which has normal / ' / or loud / ↓ / stress.

All the examples above, except the first, consist of a single phrase. (The symbol for phrase boundary, / , /, is not a phoneme). Two phrases:

'pa_j 'nǎ_j: , 'dii: ↑ .
 'sâa tua-'níi: rěe , 'khun 'sà_j 'mâa-khyyn-'níi .

(The second example is the pauseless version of the first intonation example, 1.6.3.)

1.7. Distribution

1.7.1. Maximum and Minimum Syllables

The maximum structure of the ST syllable is symbolized in the following formula, which also summarizes the positions in which phonemic symbols having to do with syllabic components are written:

T
 S₁ C₁ C₂ V₁ V₂ C₃ S₂

For example, the syllable /!plàaw:/ in the utterance /!plàaw: ↑./ 'Of course not!' contains one phoneme from each of these categories.

The minimum syllable is symbolized as follows:

V₁

For example, the syllable /a/ in the utterance /'tham-a'raj ./ 'What are you doing?' consists of a single vowel phoneme.

The meanings of the symbols in the formulae are as follows:

- T -- any tone phoneme
- S₁ - the stress phoneme / ' / or / ! /
- C₁ - any consonant phoneme
- C₂ - any consonant phoneme, but normally only /w l r/
- V₁ - any vowel phoneme
- V₂ - any vowel phoneme
- C₃ - one of the consonant phonemes / b d g m n ŋ w j (f s l)/
- S₂ - the stress phoneme / : /

1.7.2. Normal Syllabic Distribution

Excluding rare instances of distribution (e.g. initial consonant clusters such as /st/ and final consonants such as /f/), the normal limitations on distribution of phonemes within the syllable are as follows:

- 1) If C₂ is /w/, C₁ is /k/ or /kh/.
- 2) If C₂ is /l/, C₁ is one of this set: /p, ph, k, kh/
- 3) If C₂ is /r/, C₁ is one of this set: /p, ph, t, k, kh/.
- 4) If C₂ is /w/, V₁ is one of this set: /i, e, ε, a, ə/
- 5) If V₁ is /i, e, ε/, C₃ is not /j/.
- 6) If V₁ is /u, o, ɔ, y/, C₃ is not /w/.
- 7) If V₁ is /y/ and C₃ is /j/, C₂ is /a/.
- 8) If V₁ -V₂ is /yy/, C₃ is not /g, ŋ/.
- 9) If V₁ -V₂ is /ll/, C₃ is not /ŋ/.
- 10) If V₁ is one of this set: /e, ε, ə, a, o, ɔ/, then V₂ is the same as V₁ or is missing.
- 11) If V₁ is /i/, V₂ is one of this set: /i, a, ə/, or missing.
- 12) If V₁ is /u/, V₂ is one of this set: /u, a, ə/, or missing.
- 13) If V₁ is /y/, V₂ is /y, a/ or missing.

- 14) If V₁-V₂ is /ue, ie/, C₃ is one of this set: /b, d, g/ or missing.
- 15) If C₃ is /b, d, g/, T is one of this set: /~ ' ` ʔ/.
- 16) If V₂ is /e/ or missing and C₃ is missing, T is one of the same set (15).
- 17) If S₁ is present, V₁ is /e/, and V₂ is missing, then T is not / ʔ/.
- 18) If S₁ is present and C₃ is /b, d, g/, T is not / ~/.

1.7.3. Abnormal Syllabic Distributions

Certain speakers of ST, most of them also speakers of one or more Western languages, have recently introduced innovations into the scheme of syllabic component distribution which are not as yet accepted by the majority of ST speakers. Such innovations include triple initial consonant clusters, usually involving /s/ as first member, and double final consonant clusters, usually involving /j/ or /w/ as first member. An example including both types of innovation follows:

/'strájg/	'(labor) strike'
	T
S ₁ C ₁ C ₂ C ₃ V ₁ C ₄ C ₅	

Such patterns, along with the use of unusual finals such as /f, s, l/, are not considered normal ST distribution patterns in the present analysis.

1.7.4. Other Distribution

The normal limitations on distribution of prosodic phonemes with relation to each other and to syllabic phonemes follow. (R = rhythm phoneme, I = intonation phoneme.)

- 1) If R is absent, S₁-S₂ are absent, T is / ~/ or / / (toneless), V₂ and C₃ are absent.

/thũ'law/	'improve'
/k ₁ 'laa/	sports'
- 2) If R is / - /, S₁ is / ' / or absent and S₂ is absent.
- 3) If S₂ is first / ˈ / in phrase, S₁ is / ! / or / ' /.
- 4) If I is / ↑ . /, some syllable in clause has S₂ / : /.
- 5) If I is / ↑ . /, and last syllable has S₁, then it also has S₂ / : /.

- 6) If in the first two of three successive syllables, the second is no longer than the first, for the second syllable S_1-S_2 is missing and for the third syllable R will be at least normal / /, and S_1 will be at least / ' /.
- 7) If, in two successive clauses, first clause ends with I / ↑/ and second clause begins with I / ↑/, I is / ↑. ↑/.
- 8) In two successive clauses, if / ↑/ is absent at the end of the first clause and at the beginning of the second clause, I is / . /.

1.8. Morphophonemics

1.8.1. Summary

Pairs of morphs exhibiting minimal contrasts of syllabic phonemes generally show a high degree of resistance to homonymity under the influence of prosodic factors such as rhythm and intonation. The areas where ambiguities arise are mainly confined to 1) vowel length, 2) stress, and 3) tone. Under normal rhythm conditions (medium or longer syllable duration), the following morphs are distinct from each other:

- 1) /'kaan/ 'business, act'
- 2) /kan/ 'as a group'
- 3) /'kàn/ 'hilt'
- 4) /'kan/ 'to ward off'

Under fast-rhythm conditions (medium -short or short internal syllable duration), however, all four morphs may show up as /kan-/:

- 1) /'lêæg kan-'rian/ 'stop (the business of) studying'
- 2) /'paɟ: kan- mòd/ 'they all (as a group) went'
- 3) /'càb kan-'mîid/ 'grasp the knife-hilt'
- 4) /'jaa-kan-'juŋ/ 'medicine for (warding off) mosquitoes'

Also, under certain intonational conditions, such as between pauses, 3) /'kàn/ and 4) /'kan/ both show up as / . 'kan ./ (see 1.5.1.)

For another example of tones falling together, consider the following four normally distinct morphs:

- 1) /'khãw/ 'he, she, they'
- 2) /'kháw/ 'feature, trace'

- 3) /'khâw/ 'enter'
 4) /'khăw/ 'hill'

Under weak stress, however, all can show up as /khăw-/:

- 1) /'rág khăw-'mâag/ 'like her a lot'
 2) /'duu khăw-'nâa/ 'look at the facial features'
 3) /'sàj: khăw-paj/ 'put it in there'
 4) /'thỹŋ khăw-'din/ 'reached Khao-Din (mountain)'

It is desirable, therefore, for the easy identification of morphs, to write them in a consistent morphophonemic shape, insofar as possible. This requires the postulation of rules for the reconstruction of actual phonemic shapes, under varying conditions, from morphophonemic formulae. In the case of long vowels and tones, this is easily done. In the case of morphs differing by stress and morphs composed of prosodic phonemes, it is more complicated.

1.8.2. Syllable Morphophonemics

Morphs which occur under conditions of normal stress and medium internal-syllable length more often than not are always written in the phonemic shape which they have under those conditions, except that the stress is omitted:

<u>Phonemic</u>		<u>Morphophonemic</u>
/'châaŋ/	'artisan'	/châaŋ/
/'châŋ/	'to weigh'	/châŋ/
/chán/	'shelf, class'	/chán/
/'chăn/	'to eat (said of monks)'	/chăn/

The rules for determining their actual phonemic shape are as follows:

- 1) Morphs with long vowels occur with the corresponding short vowel when they have medium-short duration / - /, provided the preceding syllable has medium duration or better.

Phonemic: /'hăa 'châŋ-'máaj/ 'look for a carpenter.'

Morphophonemic: /hăa châaŋ-máaj/

Phonemic: /'lêəg kan-'rian/ 'stop studying'

Morphophonemic: /lêəg kaan-rian/

- 2) Morphs with short vowels occur with the corresponding long vowel under conditions of loud sustained stress.

Phonemic: /!châaŋ: ↑./ 'I weighed it!

Morphophonemic: /!châŋ ↑./

- 3) Morphs with long diphthongs are sometimes replaced by short-vowel morphs under conditions of weak stress and medium-short or less duration. Such allomorphs must be listed separately.

/!sĩa-'daaj/ 'regret' becomes /sã'daaj/

/!lÿa-'kœen/ 'excessively' becomes /lõ'kœen/

/!dũaj-'máaj/ 'with wood' becomes /dâj-'máaj/

- 4) Morphs with mid / / and low / ` / tone are replaced by toneless morphs under conditions of weak stress and medium-short or less duration.

/!rooŋ-'rian/ 'school,' /'jàa 'paj/ 'don't go'

Phonemic: /!thîi rooŋ-'rian/ 'at school'

Morphophonemic: /thîi rooŋ-rian/

Phonemic: /'phîi ja-'paj/ 'Brother shouldn't go.'

Morphophonemic: /phîi jàa-paj/

Phonemic: /'jaa-kan-'juŋ/ 'mosquito repellent'

Morphophonemic: /jaa-kan-juŋ/

Phonemic: /'càb kan-'mîid/ 'grasp the knife-hilt'

Morphophonemic: /càb kàn-mîid/

- 5) Morphs with constricted high / ˥ /, falling / ˨ /, and rising / ˨̄ / tone are replaced by morphs with plain high tone / ˥̄ / under conditions of weak stress and medium-short or less duration.

/!nám-'phÿŋ/ 'honey' /!thîi-'nâŋ/ 'seat'

/!năŋ-'sÿy/ 'book'

Phonemic: /!hăj năm-'phÿŋ/ 'honey-jar',

Morphophonemic: /hăj năm-phÿŋ/

Phonemic: /!hăa thĩ-'nâŋ/ 'look for seats'

Morphophonemic: /hăa thîi-nâŋ/

Phonemic: /'duu nǎŋ-'sǿy/ 'look at books'
 Morphophonemic: /duu nǎŋ-sǿy/

On the other hand, morphs which occur under conditions of weak stress and less than medium duration more often than not are also written without stress indication:

/kan/ 'as a group'
 /châŋ/ 'certainly does'
 /chǎn/ 'I, me'

There are several reasons why no confusion results from this:

- 1) Some morphemes, like /kan/, are never stressed unless accompanied by rhythmic evidence that they are stressed:

Phonemic: /thǿŋ-'kan lǿ-'kan/ 'toward each other'
 Morphophonemic: /thǿŋ-kan lǿ-kan/

- 2) Other morphemes, like /châŋ/, have different shapes when they are stressed. Writing the alternate shape, which is usually larger, is sufficient indication of stress.

Phonemic: /châŋ-'phûud/ 'really talks'
 Morphophonemic: /châŋ-phûud/
 Phonemic: /'châaŋ-'phûud/ 'clever talker'
 Morphophonemic: /châaŋ-phûud/
 Phonemic: /'châaŋ 'phûud/ 'the artisan speaks'
 Morphophonemic: /châaŋ phûud/

(The last example involves a different morpheme, the usually-stressed morpheme /'châaŋ/.)

- 3) Still other morphemes, like /chǎn/, are identified as normally weak-stressed by the fact that they have plain high tone in their principal allomorph. All morphs written morphophonemically with plain high tone belong either to this category, or to a category which has loud stress / ! / in the principal allomorph.

- 4) The functional load of the contrast weak stress/normal stress is extremely low in any case. There are a few cases like the following:

/'tâd 'phǿm/ 'cut hair'

/ 'tãd phõm/ 'cut me'

(Even here, /phõm/ 'I' has an alternate form /phõm/ for some speakers.)

- 5) All morphemes which characteristically have weak stress are listed along with their allomorphs elsewhere in this grammar. They are the pronouns, the classifiers, and other minor form-class members.

From this point on, normal stress / ' / is no longer written.

1.8.3. Phrase Morphophonemics

Phonemic phrases are written without indication of stress-onset except for loud stress / ! /. Phrase-boundaries are marked by the morphophonemic symbol /,/, which means 'no syllables with normal or loud stress occur after the syllable with sustained stress / : /.' (See 1.6.4., end.). Clauses without any internal /, / consist of a single phrase. Rhythm patterns are retained intact, and internal-syllable durations are written phonemically.

The rules for prediction of stress-onset in morphophonemically written phrases are re-stated as follows:

- 1) If the phrase has no sustained stress, the last syllable in the phrase has at least normal stress.

Phonemic: / 'klàb 'bâan ./ 'Went home.'

Morphophonemic: /klàb bâan ./

- 2) If the phrase contains a sustained stress, the same syllable that has the sustained stress also has at least normal stress and the syllables after it have no more than weak stress.

Phonemic: / 'klàb 'bâan: kan-thè ./ 'Let's go home.'

Morphophonemic: /klàb bâan: kan-thè ./

- 3) Syllables with medium-short duration which occur after syllables of the same or greater duration and before syllables of greater duration have weak stress (See 1.7.4.6.):

Phonemic: / 'klàb paj- 'bâan ./ 'Went back home.'

Morphophonemic: /klàb páj-bâan ./

Phonemic: / 'sàj khâw-paj-naj-kra 'păw ./
'Put it into his pocket.'

Morphophonemic: /sàj khâw-paj-naj-krapăw ./

4) All syllables with short duration have weak stress.

Phonemic: /kra 'pǎw/ 'pocket'
Morphophonemic: /krapǎw/

5) Other syllables have either weak or normal stress, (within the limitations of predictability set forth in the second part of 1.8.2.):

Phonemic: /'tǎd 'phǒm/ 'Cut hair.'
Phonemic: /'tǎd phǒm/ 'Cut me.'
Morphophonemic,
for both: /tǎd phǒm/

The constituent phrases of the example 'Is this the coat you wore last night?' (1.6.4., end) are now re-written morphophonemically.

First Phrase: sǎa tua-ní: rǎe
Second Phrase: khun sǎj mǎa-khyyn-ní .

1.8.4 Clause Morphophonemics

Desirable modifications in the notation of clause intonations and junctures, and also certain simplifications of predictable features in the clause context, require the statement of the following rules.

1) Since /↑/ at the end of a clause is always preceded by / : / if the last syllable in the clause is stressed (See 1.7.4.5), simplify / : ↑/ to / ↑/.

Phonemic: /'klàb 'bâan: ↑./ 'He went home!'
Morphophonemic: /klàb bâan ↑./

2) Since, in a phrase with no prior / : /, a syllable before phrase-boundary /, / having normal stress must by definition have sustained stress for the phrase-boundary to occur at all (see 1.8.3, beginning), replace the combination / : , / by /, / (provided the last syllable in the phrase does not have loud stress / ! /, where the distinction is meaningful - see first two examples under 1.6.2.).

Phonemic: /'klàb 'bâan: , 'kín 'khâw ./
'Went home, and ate.'
Morphophonemic: /klàb bâan , kìn khâw ./

- 3) Since the meaning of two successive clauses with falling intonation and close juncture, separated by pause, /A . B ./ is no different from the meaning of two successive phrases in a single clause with falling intonation /A , B ./, replace all internal simple pauses / . / by phrase boundaries /, /.

Phonemic: /'klàb 'bâan . 'kin 'khâaw ./

Morphophonemic: /klàb bâan , kin khâaw ./

(Same as example in 2) above).

- 4) Replace all instances of / . † / by the symbol / . / (which has no other morphophonemic significance following the application of rule 3) above). Thus / . / in effect becomes the symbol for open clause juncture and utterance-final pause.

Phonemic: /'klàb 'bâan . † 'kin 'khâaw ./
'Went home. Ate.'

Morphophonemic: /klàb bâan . kin khâaw ./

- 5) Replace all instances of /A † . B/, where a clause with high intonation is followed in close juncture by another clause, by /A † B/, which in effect signifies close clause juncture or its equivalent.

Phonemic: /phǒm 'maa. nĩ-khrǎb † . tha'maj camâj-'maa ./
'I came!- why wouldn't I have come.'

Morphophonemic: /phǒm maa: nĩ-khráb † thamaj camâj-maa ./

- 6) As a corollary of rule 4), replace the combination /A † . † B/ by the combination /A † . B/ (which has no other morphophonemic significance following the application of rule 5) above).

Phonemic: /phǒm 'maa: nĩ-khrǎb † . † tha'maj camâj-'maa. †/
'I came! Why wouldn't I have come?!'

Morphophonemic: /phǒm maa: nĩ-khráb † . thamaj camâj-maa † ./

The eight examples of different intonation sequences given in 1.6.3. are now symbolized morphophonemically. A represents the clause or phrase /s̄yâ tua-nĩ: r̄əə/, 'Is this the coat?' and B represents the clause /khun s̄aj m̄yâ-khyyn-nĩ/ 'You wore (it) last night.'

1) /A B ./ 'Is this the coat you wore last night?'

2) /A . B ./ 'Is this the coat? You wore it last night.'

- 3) /A ↑ B ./ 'Is this the coat you wore last night?!
- 4) /A ↑ . B ./ 'Is this the coat?! You wore it last night.'
- 5) /A B ↑ ./ 'Is this the coat you wore last night?!
- 6) /A . B ↑ ./ 'Is this the coat? You wore it last night!'
- 7) /A ↑ B ↑ ./ 'Is this the coat you wore last night?!
- 8) /A ↑ . B ↑ ./ 'Is this the coat?! You wore it last night!'

CHAPTER II

MORPHOLOGY AND SYNTAX

2.1. Summary

2.1.1. Terminology

ST has three categories of basic, meaningful units: morphemes, lexemes, and syntactic constructions. These terms are defined in detail in the sections which follow, but roughly speaking morphemes correspond to the smallest meaningful units, lexemes to words (such as one might find in the dictionary), and syntactic constructions to phrases, clauses, and sentences.

Morphemes and lexemes share the characteristic that they may have variants - different forms under different circumstances. Lexemes and syntactic constructions share the characteristic of immediate constituents occurring in various orders: consecutive, simultaneous, discontinuous, repetitive, parallel, and interlocking. Morphemes have no immediate constituents (except on the morphophonemic level), and syntactic constructions (as defined here) have no variants. Hence lexemes are the pivotal unit at this level, just as the syllable is the pivotal unit in phonology.

Morphology is here defined as the analysis of structure between the morphophonemic and lexemic levels. It includes such things as the listing of morphemes which do not participate in lexeme construction (2.2.) as well as the sub-syllabic ones which do (2.3.), and illustration of ways and orders in which morphemes combine to form lexemes (2.4.)

Syntax is here defined as the analysis of structure between the lexemic level and the level of the highest order of syntactic construction. It includes such things as the hierarchy of constituents - syntactic units, phrases, clauses, sentences, discourses, and exchanges (2.5.1.) - the analysis of constructions with regard to substitutability (2.5.2.) and order (2.5.3.), ultimately leading up to the classification of lexemes and sentences with regard to function (2.6.).

2.1.2. Morphemes and Lexeme Construction

Morphemes, being the smallest meaningful units of ST, are actually sets of variant forms called morphs. It is therefore necessary to define the latter term first.

1) A morph is any morphophonemic sequence (from one phoneme upwards in length) which has meaning associated with it by ST speakers. The utterance

/!dɛən: † ./ 'Sure, it works!' contains four morphs: 1) the morph /dɛən/ 'to walk, to function properly,' 2) the morph /! :/ 'contradictory assertion,' 3) the morph /†/ 'emotional involvement,' and 4) the morph / . / 'end of clause construction.'

2) A morpheme is any set of morphs which have the same meaning and which either do not contrast in any single environment, or contrast in a manner not regarded as significant by ST speakers; or it is any single morph which does not belong to such a set. Individual members of a set of morphs belonging to the same morpheme are its allomorphs.

The morphophonemic sequence /dam-nɛən/ 'to conduct, to proceed' contains a morph /d...ɛən/, which is an allomorph of the morpheme /dɛən/ (we have seen another of its allomorphs in the sequence /!dɛən: † ./); the other morph /am-n/, which is infixed to /d...ɛən/, is an allomorph of a morpheme /amn/ 'formal or technical connotation.' The discontinuous allomorph /d...ɛən/ does not contrast with the continuous allomorph /dɛən/ in any environment; the same applies to /am-n/ and other allomorphs of /amn/ (see 2.3.2.1.). An example of a morpheme including only a single morph is / . / 'end of clause construction' (morph 4) above); all other morphs cited so far are members of allomorphic sets.

3) Morphemes are classified according to form and function as follows.

Prosodic morphemes (2.2.) have morphs whose constituents are prosodic phonemes. Sub-categories include intonation and loud-stress morphemes (2.2.1.), rhythmic morphemes (2.2.2. and 2.2.4.), and normal-stress morphemes (2.2.3.)

Sub-lexemic morphemes (2.3.) are morphemes some or all of whose morphs have syllabic phoneme constituents totalling less than a syllable, or a syllable plus a fraction. Sub-lexemic morphemes, therefore, do not occur by themselves as lexemes, but enter into lexeme composition. Sub-categories include prefixes (2.3.1.), infixes (2.3.2.), superfixes (2.3.3.), and other fractional constituents (2.3.4-5.).

Lexemic morphemes are those morphemes which occur independently at the lexemic level. In form they range from one syllable upwards. The majority of ST morphemes are, in fact, monosyllabic lexemic morphemes: /maa/ 'to come.' Two-syllable morphemes are also quite common: /kâw-î1/ 'chair'

Morphemes of more than four syllables in length are hard to find, but the following five-syllable sequence is probably a single morpheme:

/anú-săa-wâr11/ 'monument.'

4) Lexemic morphemes, like sub-lexemic ones, enter into composition of lexemes which are larger than themselves (2.4.). Such composition is of three general types: derivatives (2.4.1.), compounds (2.4.2.) and reduplications (2.4.3.). Prosodic morphemes are also involved in lexeme composition, to some extent.

2.1.3 Lexemes and Syntactic Constructions

Lexemes, like morphemes, are actually sets of variant forms. It is necessary, therefore, to define a prior term, lexical unit, in order to define a lexeme.

1) A lexical unit is any morph or combination of morphs corresponding morphophonemically to a single syllable or to an integral number of syllables (i.e. not a fraction of a syllable, or syllables plus residual fractions), such that it is a minimum immediate constituent of the construction in which it occurs. In other words, if lexical units are analyzable, they can only be analyzed after everything else in the context has been cleared away /dam-nēen/ 'to conduct' is a lexical unit in the context /dam-nēen chii-wíd/ 'to conduct ones life,' because there is no construction /dam...chii-wíd/, /nēen chii-wíd/ or the like.

Of the morphs cited so far, the examples /! :/, / ↑ /, / . /, and /am-n/ are not lexical units, because they fail to meet the requirement of syllabicity. Only two examples, /dēen/ 'to walk, to function properly' and /chii-wíd/ 'life,' are lexical units, in the contexts /!dēen: ↑ ./ and /dam-nēen chii-wíd/ respectively. On the other hand, /dēen/ is not a lexical unit in /dam-nēen/ or in an expression such as /dēen thěw/ 'to march,' where it is merely one of the constituent morphs.

Lexical units are not grammatically important except insofar as they are the individual units of which sets called lexemes consist. The proportion is as follows:

morphs: morphemes:: lexical units: lexemes

The first and third items are isolated forms; the third and fourth, sets of forms.

2) A lexeme is any set of lexical units which have the same meaning and which either do not contrast in any single environment, or contrast in a manner not regarded as significant by ST speakers; or it is any single lexical unit which does not belong to such a set. To put it another way, lexemes are what one finds in a dictionary; the better the dictionary, the more lexemes it lists, but it never lists them all, and it never lists anything but lexemes.

Alternate lexical units belonging to the same lexeme are its allolexes. For example, the lexeme /dam-nēen/ has an allolex of that shape and also an allolex /damnēen/, as in the sequence /chôb damnēen ŋaan/ 'likes to conduct the work.' The lexeme /chii-wíd/ has an allolex /chiiwíd/, as in /chûaj chiiwíd: wáj/ 'to save someone's life.'

3) Lexical units, and therefore lexemes, can include combinations of morphs which are lexical units in their own right. For example, /râad-damnēen/ 'royal procession' meets all the criteria of a lexical unit - it

consists of three whole syllables, and has to be analyzed last in whatever construction it is a part of. But, as we know, /damneen/ itself is a lexical unit. Lexemes are therefore classified in terms of orders, depending on the number of immediate constituents that can be distinguished.

First-order lexemes are single morphemes considered on the lexical level: /deen/ 'to walk, to function properly.'

Second-order lexemes consist of two constituents, which are both morphemes: /dam-neen/ 'to proceed, to conduct.'

Third-order lexemes consist of two constituents, one of which is analyzable (usually a lexeme itself), or three morphemes: /râad-damneen/ 'royal procession' and /wan-jaŋ-khâm/ 'all day long' (/wan/ 'day,' /jaŋ/ 'to,' /khâm/ 'evening.')

Lexemes of higher orders also exist.

4) The combination of lexemes into higher-order constructions has been defined as syntax (2.1.1., end). Lexemes combine with each other in all types of order except the simultaneous (2.5.2-3.). Lexemes also combine with prosodic morphemes in simultaneous order. This type of construction is considered syntactic (rather than morphological), because larger syntactic constructions comprising many lexemes also occur in simultaneous order with prosodic morphemes (see 2.5.1.).

Besides their classification based on internal structure ('first-order,' etc.), lexemes are also classified on the basis of external structure - i.e. according to the types of syntactic construction in which they characteristically participate (2.6.1.). To distinguish this type of classification from the other, the term form-class is used. A form-class is a class of lexemes which fill a given position in a given syntactic construction, or which share a number of such positions.

2.2. Prosodic Morphemes

2.2.1. Intonation and Loud-Stress Morphemes

1) / . / 'end of clause construction.'

Example of contrast with / , /:

khǒoŋ khun-cid . khǎw fàag wáj .

'It belongs to Chit. He left it here.'

khǒoŋ khun-cid , khǎw fàag wáj .

'It's something of Chit's that he left here.'

Example of contrast of / ↑ ./ with / ↑ / by itself:

mâj jàaŋ-nán ↑ . dǎaw lùd ↑ .

'Not that way! It'll come loose!'

mâj jàaŋ-nán ↑ dǎaw lùd ↑ .

'Otherwise, it'll come loose!'

2) / ↑ /, in the context / ↑ ./, 'emotional involvement.'

Example of contrast with zero (in answer to the question
'Is he going?'):

mâj-paj: ròg .

'No, he's not.'

mâj-paj: rǒg ↑ .

'Not him!'

Allomorph: / ↑ / in the context / ↑ ... ↑ ./ (see last example under morpheme 1), where 'emotional involvement' applies to both clauses.)

3) / , / 'clause construction continues, with major immediate constituent cut here.'

Example of contrast with / . /: see second example under morpheme 1).

Example of contrast with zero:

léew khun-samàg , capaj nǎj .

'And Samag, where is he going?'

léew khun-samàg capaj nǎj .

'And where is Samag going?' or

'Where are you going, Samag?'

Allomorph: / ↑ / in the context / ↑/ or the context / ↑...↑./ (where it is a portmanteau morpheme - see morpheme 2), end.)

Example of contrast in both contexts with / ↑ ./:

!mii rǎy: ↑ manúd cabin dâj .

'Is there such a thing as a human being able to fly?'

!mii rǎy: ↑ . phǒm mâj-chÿa .

'Is there such a thing?! I don't believe it.'

4) / ! ... :/ 'contrastive emphasis' (always followed by ↑)

Example of contrast with normal stress (in answer to the question 'Is he going?'):

!paɟ: khráb ↑ .

'Of course he is!'

paɟ: khráb .

'Yes, he is.'

Allomorph: /! ... ↑/, when syllable is last in clause before / . /.
(In this position, / ↑ / is the morphophonemic version of / : ↑ / - see 1.8.4.1.). Example:

!paɟ ↑ .

'Of course he's going!'

Allomorph: /! S ... S:/, when two or more syllables are covered by 'contrastive emphasis.' (see /!mɪɪ rŷy:/ in last three examples under morpheme 3) above.)

Allomorph: /! S ... ↑/, when two or more syllables are covered by 'contrastive emphasis' and last syllable comes before / . /. Example in second clause:

mâɟ-châɟ chaam ! diaw ↑ . ! sǒɔŋ chaam ↑ .

'Not one bowl! Two bowls!'

Note: / ! : / and the other variants listed above are not members of the morpheme 'contrastive emphasis' in all cases of their occurrence. Certain interjections (3.1.1.) have these morphophonemic sequences as part of their morphemic composition, e.g. /!tâaɟ:/ 'Oh, my gosh!'

5) / ! / by itself 'exhortation to action; signal to conclude a conversation or pass to a new topic.'

Example in contrast with / ! ↑ /:

!paɟ .

'Let's go!'

!paɟ ↑ .

'Of course he's going!'

Example in contrast with normal stress:

!aw .

'All right now (let's see).'

aw .

'All right (I'll accept it.)'

2.2.2. Rhythmic Morphemes

- 1) / : / 'phrase construction continues, with major immediate constituent cut here.'

Example of contrast with / , /:

pa j nǎj: maa .

'Where have you been?' (/maa/ is an adverb)

pa j nǎj , maa .

'Where are you going, Mah?' (/maa/ is a name)

Example of contrast with / /:

khǎw phũud: khráb .

'He's talking, sir.'

khǎw phũud khráb saměe .

'He always says /khráb/ ('sir').'

- 2) / - / 'minor or no immediate constituent cut here; sub-lexemic or low-order syntactic division.'

Double example of contrast with / /:

tâŋ tôn-sàg .

'Stand a teak-tree upright.'

tâŋ-tôn sàg .

'Begin to tattoo.'

In the first example, /tâŋ/ is a verb lexeme meaning 'set up, stand up (transitive),' and /tôn-sàg/ is a compound noun lexeme meaning 'teak-tree.' In the second example, /tâŋ-tôn/ is a compound verb lexeme meaning 'begin,' and /sàg/ is a verb lexeme meaning 'tattoo.' In both cases / - / represents a sub-lexemic cut.

Example of contrast with / : /:

tham ród sǎ dũa j .

'Made the car break down too.'

tham ród: sǎ-dũa j .

'Makes cars, besides (in addition to doing other things).'

In both examples, the first two lexemes are a verb 'make' and a noun 'car,' and the last lexeme is an adverb 'also.' The difference is in the third lexeme, which in the first instance fills a major syntactic slot as a

verb meaning 'to be lost, destroyed,' and in the second instance is a minor lexeme meaning something like 'unit verbal action.' In this case /-/ represents a minor syntactic cut, which is made after the major cut represented by / : /.

Example of /-/ representing no cut:

tâŋ kâw-îi .
'Set up chairs.'

/kâw-îi/ 'chair' is an unanalyzable lexeme. All such lexemes in ST contain the morph /-/ , or its allomorph which follows below, in at least some contexts.

Allomorph of 2): /AB/ (short syllable duration) in the contexts /AB C/ and /X AB/ only. No contrastive examples occur.

Example of minor syntactic cut:

phîi capaŋ .
'Older brother intends to go.'

The lexeme /ca/ is preposition meaning 'hypothetical action.' Last cut is between /ca/ and /paŋ/.

Example of sub-lexemic cut:

juu thînáŋ .
'Where is it?'

The lexeme /thînáŋ/ 'where,' is analyzable into two morphemes represented by the morphs /thî/ 'at' and /náŋ/ 'where.' Last cut is between them.

Example of no cut:

sýy mamûaŋ .
'Buy mangoes.'

The lexeme /mamûaŋ/ 'mango' is unanalyzable.

When /AB/ occurs in the contexts /AB-C/ and /X-AB/ (i.e. when the morpheme /-/ precedes or follows), it is not an allomorph of /-/.

phôn-lâmáaŋ .
'It's fruit.'

The compound lexical item 'fruit' consists of three morphs: /phôn/ 'fruit, result,' the rhythmic morph /-/ , and /lâmáaŋ/ , an allomorph of /máaŋ/ 'wood, trees' occurring only in this combination. The sequence /lâmáaŋ/ contains no rhythmic morph.

- 3) / / (medium syllable duration) in the context /AB C/ , /A-B C/ , /A BC/ , or /A B-C/ (i.e. when morpheme 2) above either

immediately precedes or follows): 'higher-order immediate constituent cut here, to be made before any cut represented by /-/; usually syntactic but may be sub-lexemic.'

Examples of syntactic cuts (from 2) above):

taŋ-tôn sǎg .	(A-B C)
'Begin to tattoo.'	
phîi capaj .	(A BC)
'Older brother intends to go.'	
mamûaŋ dii .	(AB C)
'Good mangoes.'	

Example of sub-lexemic cut:

mahăa wîd-jaalaj .
'The university.'

This is a single lexeme consisting of four morphemes: /mahăa/ 'big, /wîd-jaalaj/ 'college' and the rhythmic morphemes / / and /-/. The only cut to be made is between /mahăa/ and the remainder, unless the sequence /wîd-jaalaj/ proves to be analyzable.

Allomorph of 3): /A-B/ in the sequence /A-B-C/. Example:

jaa-kan-juŋ .
'Mosquito repellent'

Immediate constituent analysis is no different from the following, which also occurs:

jaa kan-juŋ .

'Medicine /jaa/ for warding off /kan/ mosquitoes /juŋ/.' The first cut in both cases is between /jaa/ and /kan-juŋ/, the second cut between /kan/ and /juŋ/. Both cuts are sub-lexemic, since the entire sequence is a single lexeme.

4) / / (medium syllable-duration) in the context /A B: C/ (i.e. when morpheme 1) above immediately follows): 'higher-order immediate constituent cut here, to be made after the cut represented by / : / but before any cut represented by /-/; always syntactic.'

This morpheme is best illustrated in multiple contrast with the rhythmic morphemes already described, and with zero rhythmic morpheme.

Examples:

chûaj lÿa kan .	/A B C/
'Help Leua to prevent it.'	

chûaj lÿa: kan .	/A B: C/
'Help Leua, acting as a group.'	
chûaj-lÿa kan .	/A-B C/
'Assist in preventing it.'	
chûaj-lÿa: kan .	/A-B: C/
'Assist each other.'	

/A B C/ - Immediate constituent cut not indicated. In this phrase, the constituent lexemes are a verb (A), a noun which is a nickname (B), and another verb (C). The intonation morpheme / . / makes it a clause, but there are no rhythmic morphemes. The immediate constituent cut can be made tagmemically, but not on morphemic evidence.

/A B: C/ - Major cut after /B/, hence last cut between /A/ and /B/.

In this phrase the first two lexemes are as before, and the third is a pronoun (C). The rhythmic morpheme / : / is present, hence the space between /A/ and /B/ is an instance of morpheme 4).

/A-B C/ - Sub-lexemic or low-order syntactic cut between /A/ and /B/, hence first cut after /B/. The first two morphemes /A-B/ are constituents of a compound verb lexeme of somewhat more formal meaning than /A/ by itself. The rhythmic morpheme /-/ is present, hence the space between /B/ and /C/ is an allomorph of morpheme 3) above.

/A-B: C/ - Sub-lexemic or low-order syntactic cut between /A/ and /B/, major cut after /B/. As before, /A-B/ is the compound verb, but /C/ is now the pronoun.

5) /-/ In the context of a compound lexeme composed of numeral constituents only: 'multiplication.'

Examples:

/hâa/	'five'	/sib/	'ten'	/hâa-sib/	'fifty'
/sìl/	'four'	/róoj/	'hundred'	/sìl-róoj/	'400'
/săam/	'three'	/phan/	'thousand'	/săam-phan/	'3,000'

6) // in the context of a compound lexeme composed of numeral constituents only: 'addition.'

Examples:

/hâa-sib hâa/	'fifty-five'
/săam-phan sìl-róoj/	'3,400'

2.2.3. Normal-Stress Morphs

Normal stress is not morphophonemically distinguished from weak stress (see 1.8.3.), but a few prosodic morphs exist which are more properly characterized as normal-stress morphs (i.e. morphs whose phonemic shape is normal stress) than as rhythmic morphs. In the rhythmic context /A-B/, syllable /B/ has normal stress unless / : / precedes in the same phrase. Occurrence in such a context, therefore, is evidence of phonemic normal stress.

Most classes of lexemes consist of members which include normal stress in at least one syllable of some allomorph (see 2.1.3.2.), but a few classes characteristically lack stress in all their forms - e.g. pronouns, prepositions, and certain kinds of classifiers. When normal stress occurs in connection with such lexemes, therefore, it is not part of the lexical unit but is a morph in its own right. Following are the two most easily recognized members of this class of morphs:

- 1) / ' / (normal stress): an allomorph of /diaw/ 'one, single' which occurs in simultaneous order with classifiers and certain numerals.

chaaj ìig-sǒɔŋ khon .
'Two more men.'

In this phrase /chaaj/ is a noun 'man,' /ìig/ a preposition 'further,' /sǒɔŋ/ is a numeral 'two,' and /khon/ is a classifier for people.

chaaj ìig-khon .
'One more man'

Here the stress on /khon/ is an instance of the morph / ' / 'one.'

sǒɔŋ-róɔŋ hâa-sìb .
'Two hundred and fifty.'
róɔŋ hâa-sìb .
'One hundred and fifty.'

Here the numeral /róɔŋ/ 'hundred,' which usually has normal stress, occurs in a stressless allomorph, and the actual stress is again an allomorph of /diaw/ 'one.'

- 2) / ' / (normal stress) is an allomorph of the demonstrative morpheme /n ' / (2.3.4.1.) which occurs in simultaneous order with pronouns.

khǒɔŋ phǒm jùu naj-túu .

'My things are in the chest.'

In the phrase /khǒɔŋ phǒm/, the noun /khǒɔŋ/ 'things' has normal stress, and the pronoun /phǒm/ 'I, me' has its usual weak stress and modifies the noun.

khǒɔŋ-phǒm jùu naj-túu .

'Mine is (are) in the chest.'

This time /khǒɔŋ/ is the preposition 'of' and has weak stress, while the pronoun /phǒm/ has normal stress and is its object. The translation 'mine' corresponds to either 'that of me' or 'those of me,' where the demonstrative occurs in its allomorph / ' /.

Note that the immediate constituent analysis for both sentences is the same: /khǒɔŋ phǒm/ and /khǒɔŋ-phǒm/ both fill the same slot in the sentence, regardless of their internal analyses, and the rhythmic evidence is of no help.

2.2.4. Other Examples of Prosodic Contrast

1) The pairs of rhythmic contrasts presented below are given without additional context, as sentence-fractions which might occur in a number of similar environments.

tua jàaŋ-níi	'a body like this'
tua-jàaŋ níi	'this example'
faj mâj-míi	'there's no electricity'
faj-mâj míi	'fires occur'
naaj-róɔj khon-nán	'that officer of company grade'
naaj róɔj-khon: nán	'those hundred officers'
khon-nǎj díi	'which person is good?'
khon nǎj: díi	'which should be mixed?'
khâa-sýg paj-léew	'the enemy is gone'
khâa sýg: paj-léew	'I have left the monastery'
thâa-náam cahêeŋ	'the water sources will dry up'
thâa náam cahêeŋ	'if the water dried up'
róɔŋ hâj-daj	'try to shout loudly'
róɔŋ-hâj daj	'weeps loudly'
hǎa khwaam-sanùg	'seek pleasure'

hăa-khwaam sanùg	'have fun picking arguments'
tòg-loŋ maa	'agreed to come'
tòg: loŋ-maa	'fell down towards us'
mâj-thỹŋ lœej	'hasn't reached Loei'
mâj-thỹŋ: lœej	'hasn't reached there at all'
mii kam-laj dii	'has good strength'
mii kam-laj-dii	'has just the right amount'
câw nâa-ca-aw	'you ought to take it'
câw-nâa ca-aw	'the broker will get it'
rág-săa khon-con hăaj	'cure poor people'
rág-săa khon con-hăaj	'was able to treat people successfully'
maa-ráb săaj	'come to get it too late'
maa ráb-săaj	'came to answer the phone'
maa-aw sii moon	'came to get it at 10 o'clock'
maa aw-sii moon	'chose to come at 10 o'clock'
sôm: khan-nii	'this fork'
sôm khan-nii	'fix this one (car)'
mỹa waan paj-sỹ	'when asked to buy it'
mỹa-waan paj-sỹ	'went to buy it yesterday'
ráb-thaan khâaw	'eat rice'
ráb thaan khâaw	'receive a gift of rice'

2) The pairs of stress contrasts presented below do not differ in the morphophonemic representation adopted for this grammar, but differ phonemically. The example containing the normal stressed syllable in contrast is placed first and the stressed syllable is underlined. In the examples, the weak-stressed syllables in contrast are respectively a preposition, a conjunction, a classifier, a modal, and a pronoun.

<u>tâŋ</u> naan	'has been set up a long time'
tâŋ naan	'for a very long time'
<u>thâa</u> bèeb-nán	'that type of landing-place'
thâa bèeb-nán	'if it's that type'

<u>khan</u> -lǎŋ	'(my) back itches'
khan-lǎŋ	'the one (car) behind'
khǎw klàb paj rǎad-burɪɪ	'He went back to Rajaburi.'
khǎw klàb paj rǎad-burɪɪ	'He unexpectedly went to Rajaburi.'
bòog <u>khun</u>	'tell the virtues of'
bòog khun	'tell you'

3) The pairs of intonation contrasts below all involve the difference between / , / and no phrase boundary. In all cases, a proper name is involved.

khun samàg , capaj: mǎj .	'Are you going, Samag?'
khun samàg capaj: mǎj .	'Are you volunteering to go?'
tham hâj-sèd kòon , dɪɪ .	'Get it done first, Dee.'
tham hâj-sèd kòon dɪɪ .	'It would be good to get it done first'
khun khonj , capaj dũaj: lǎ ↑ .	'I guess Khong is going along.'
khun khonj capaj dũaj: lǎ ↑ .	'You're certainly going along!'

2.3. Sub-lexemic Morphemes

2.3.1. Prefixes

Sub-lexemic prefixes are quite rare in ST, and all existing ones are non-productive. The following are the most important members of the category, with examples.

- 1) /pra/, /pa/, /baŋ/, and /p/ 'causative.'

The first two allomorphs always occur with short syllable-duration, and are in free variation before most bases. The third allomorph /baŋ/ usually has short-syllable duration (never more than medium short) and is restricted to bases beginning with /k/ and /kh/. The last allomorph /p/ is sub-syllabic, occurring only before bases beginning with /r/ and /l/. After /p/, the base-morpheme occurs as a sub-syllabic allomorph; if it ends in a stop, the tone changes to (or remains) low. In most other cases, including the base-allomorphs which follow /pra/, /pa/, and /baŋ/, the tone remains the same; there are a few exceptions.

Examples:

<u>Base</u>	<u>With Prefix</u>
/chum/ 'to swarm'	/prachum/ 'to assemble'
/sǒm/ 'harmonious'	/pasǒm/ 'to blend'
/tháb/ 'to be on top of'	/pratháb/ 'to affix'
/kháb/ 'tight'	/baŋkháb/ 'to regulate'
/kèəd/ 'to be born'	/baŋkèəd/ 'to originate'
/loŋ/ 'to go down'	/ploŋ/ 'to bury'
/râab/ 'flat'	/prâab/ 'to subdue'
/ráb/ 'to receive, hear'	/pràb/ 'to inflict, tell'
/lúg/ 'to wake up'	/plùg/ 'to waken'
/lɔɔj/ 'to float'	/plɔɔj/ 'to release'

(The last example has irregular tone.)

2) /kra/, /ka/, and /k/ 'reflexive'

The relationship among the allomorphs is exactly the same as among the first, second, and fourth allomorphs of morpheme 1) /pra/, including the change to low tone for bases ending in stops, after the allomorph /k/ (which occurs before bases beginning with /w/ as well). The meaning of the prefix is hard to pin down, but seems to be vaguely 'self-affecting action or condition.'

Examples:

<u>Base</u>	<u>With Prefix</u>
/tham/ 'to do'	/kratham/ 'to act'
/dòod/ 'to jump'	/kradòod/ 'to jump'
/wâaŋ/ 'unimpeded'	/kwâaŋ/ 'spacious'
/râab/ 'level'	/krâab/ 'to prostrate oneself'
/láb/ 'hidden'	/klàb/ 'to turn around'

3) /cîŋ-/ 'prefix for animals; especially mammals, lizards, and large insects'

Precedes many bases, a few of which occur by themselves, with medium-short syllable duration. There is no change in the form of any base.

Examples:

/cîŋ-còg/	'small lizard'
/cîŋ-còog/	'fox'
/cîŋ-rìid/	'cricket'

4) /ka/ or /kra/ 'prefix for animals; especially birds and fish'

Precedes many bases, with short syllable-duration. If the morphs /nóg/ 'bird' or /plaa/ 'fish' precede, they have medium-short duration, and the whole combination is a single lexeme.

Examples:

/kasăa/ or /nóg-kasăa/	'stork'
/kaliŋ/ or /nóg-kaliŋ/	'parrot'
/kaphoŋ/ or /plaa-kaphoŋ/	'sea-bass'

5) /ma/ 'prefix for plants; especially vegetables and fruits'

Precedes many bases, very few of which occur by themselves, with short duration.

Examples:

/maphráaw/	'coconut'
/makhÿa/	'eggplant'
/mamûan/	'mango'

Allomorph /maŋ/ occurs before a few bases:

/maŋkhúd/	'mangosteen'
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Allomorphs /màag-/ and /màg-/ occur with medium-short duration before many bases:

/màg-mûan/	'peach'
/màag-liŋ/	'small palm tree'

2.3.2. Infixes

Sub-lexemic infixes are somewhat more widely distributed in ST than prefixes, and one of them (the second listed) can actually be said to be productive. There are only four common infixes.

- 1) /amn/, /am/, /ab/, and /m/. 'formality or technicality added to meaning of base.'

The allomorph /amn/ is selected for most bases beginning with a single consonant. The initial consonant of the base plus /am/ becomes a syllable with short (or no more than medium-short) duration; /n/ plus the remainder of the base becomes a second syllable, which may have any duration except short. (When the base has zero initial consonant, the /amn/ is in effect a prefix.) For bases beginning with a consonant cluster, the allomorph /am/ is inserted between the members of the cluster. For monosyllabic bases beginning with /r/, the allomorph /ab/ is selected. For disyllabic bases, the allomorph /m/ is inserted at the end of the first syllable. The resulting lexeme is in all cases two syllables long.

Regular tone changes accompany the first two allomorphs. If the base morpheme has rising tone, the first syllable of the derivative lexeme has rising tone, and the second syllable has mid tone. If the base morpheme has any other tone, the first syllable of the derivative has mid tone. If the base morpheme ends in a stop, the second syllable of the derivative has low tone; otherwise, the second syllable has the same tone as the base.

Regular examples:

<u>Base</u>		<u>With Infix</u>	
/dœn/	'to walk'	/damnœn/	'to conduct, proceed'
/sǎaŋ/	'voice'	/sǎmniaŋ/	'accent'
/câaJ/	'to pay'	/camnâaJ/	'to disburse'
/uaJ/	'to give'	/amnuaJ/	'to administer'
/traa/	'stamp, seal'	/tamraa/	'textbook'
/thalaaj/	'to destroy'	/thamlaaj/	'to ruin'
/kèèd/	'to be born'	/kamnèèd/	'birth'
/rîab/	'lined up'	/rabiab/	'order'
/ram/	'to dance'	/rabam/	'to perform a dance'
/ralýg/	'to be reminded of'	/ramlýg/	'to reminisce'

Other examples involve irregularities of tone, unpredictable forms of the base morpheme or the infix, and unusual orders:

/âad/	'to be capable'	/amnâad/	'power'
/nàg/	'heavy'	/nāmnàg/	'weight'
/troŋ/	'to go straight'	/damroŋ/	'to continue'

/thaan/	'way'	/thamnɔɔŋ/	'method'
/laa/	'to take leave'	/amlaa/	'to resign'
/lyy/	'to spread hearsay'	/rabyy/	'rumor'
/sɔɔŋ/	'two, second'	/sǎmɔɔŋ/	'reserves'
/sèd/	'finished'	/sǎmrèd/	'successful'

- 2) /əə/, /ə/, /ɛɛ/, and /ɛ/ 'ridicule or inexactness added to meaning of base morpheme.'

This highly productive infix always involves a special allomorph of the base morpheme, since the vowel nucleus represented by the infix replaces the original nucleus (or the nucleus of the last syllable, if the base is polysyllabic). ST speakers do not agree on the distribution of the infix allomorphs, but a common pattern is as follows:

If the base (or its last syllable) has a long vowel or diphthong nucleus, a long-vowel allomorph, /əə/ or /ɛɛ/, is selected; if the base has a short vowel, /ə/ or /ɛ/ is selected. For bases with an original vowel nucleus of /ɛɛ/ or /ɛ/, and for all bases ending in /j/, the allomorph /əə/ or /ə/ is selected. For bases with original /əə/ or /ə/, and for most bases ending in /w/, the allomorph /ɛɛ/ or /ɛ/ is selected. (Bases ending in /əəj/ or /əj/ cannot take this infix, as /ɛɛj/, /ɛj/ are syllabic impossibilities.) For bases other than the types mentioned, the selection can be either /ɛɛ,ɛ/ or /əə,ə/, the only certain rule being the one which concerns length of nucleus.

The result, infix allomorph plus base allomorph is always preceded somewhere in the same clause by the base morpheme in its most common form. If the base morpheme comes directly before the infixed morph, the former has medium syllable duration, and the whole combination is a complex reduplicated lexeme (2.4.4.) with four constituent morphs: base morpheme, rhythmic morph, base allomorph plus infix allomorph.

Examples:

<u>Base Morpheme</u>			<u>Derivative</u>	
/kin/	'to eat'		/kin kɛn/	'wining and dining'
		<u>or</u>	/kin kən/	
/faɟ/	'fire, electricity'		/faɟ fəɟ/	'electrical system'
/ŋən/	'silver, money'		/ŋən ŋɛn/	'money and that sort of thing'
/thǎew/	'row, section'		/thǎew thǎew/	'general vicinity'
/thîaw/	'go around, visit, go out for pleasure'		/thîaw thêew/	'fool around'

/chûaj/	'to help'	/chûaj chêej/	'help out and that sort of thing'
/môo/	'pot'	/môo mêe/	'pots and pans'
/ploom/	'counterfeit'	/ploom plæm/	'counterfeit, etc.'
/hûu/	'ear'	/hûu hêe/	'ears and stuff'

If the base is a polysyllabic morpheme or a compound lexeme, the infix allomorph occurs in the last syllable, whether this is a whole morph or not:

/nǎŋ-sǎy/	'books, letters' (two-syllable morpheme)	/nǎŋ-sǎy nǎŋ-sêe/	'literature and that sort of thing'
/hěn-caj/	'sympathize' (compound lexeme)	/hěn-caj hěn-cêj/	'sympathize and all that stuff'

All infixed forms also occur in discontinuous orders (see 2.5.3.4) and 5).

- 3) An extremely common but non-productive infix with principal allomorphs /aa/ and /a/ has the same conditions of occurrence as infix 2) /êe/, etc., but a very different meaning: 'emphasis or intensification of the concept denoted by the base morpheme.' It occurs mainly with reduplicated adjectives, the result being an adverb, but also combines with other reduplicated forms as well.

<u>Base</u>		<u>Derivative</u>	
/wêew/	'brilliant'	/wêew-waaw/	'brilliantly'
/ciŋ/	'true, sincere'	/ciŋ-caŋ/	'sincerely'
/krasíb/	'to whisper'	/krasíb-krasâab/	'in whispers'

This infix has so many allomorphs, however, that the morphological analysis of the relationship between base and infix is extremely complicated for most lexemes in which it occurs.*

- 4) A double infix, occurring discontinuously in reduplicated lexemes (see 2.4.3.7.), with principal allomorphs /u-1/ and /uu-11/, has the meaning 'impressionistic visual or onomatopoeic auditory description.' It occurs mainly in adverbs and isolatives, but a few adjective lexemes incorporate it. There is some evidence that the principal allomorphs, at least, are productive.

* See M.R. Haas, 'Techniques of Intensification in Thai,' Word 2.127-30. For most cases, a separate dictionary listing of all reduplicated lexemes containing the infix is the simplest solution.

Examples:

/krad`g/	('to fidget')	/kradùg-kradìg/	'fidgety'
/c^/	('concerned with detail')	/cûu-cîl/	'petty, nagging (of persons)'
/c`g/	('details')	/cùg-cìg/	'trifling (of things)'
/s`b/	('whisper')	/sùb-sìb/	'in whispers'

Other common allomorphs of the double infix are illustrated in the following examples:

<u>Infix</u>	<u>Derivative</u>
/e-a/	/kè-kà/ 'cluttered, in the way'
/e-a/	/è -à/ 'noisy'
/e-ε/	/jé-jé/ 'numerous'
/u-a/	/khrù-khrà/ 'bumpy'

A quadruple infix, found in at least one reduplication, is probably an allomorph of this morpheme:

<u>Infix</u>	<u>Derivative</u>
/o-ε oo-εε/	/cóg-cég ooo-cεε/ 'sound of many people talking'

As in the case of 3) /aa/ etc., however, a separate dictionary listing of such lexemes is required. There are many cases where the two infix types, 3) and 4), overlap.

2.3.3. Superfixes

- 1) Two superfixes which have the phonemic shape / ' /, normal stress, but do not show up morphophonemically except by inference from rhythmic patterns, have already been mentioned (2.2.3.1-2.)

Examples:

/khon/	'classifier for people'	/'khon/	'one person'
/phõm/	'I, me'	/'phõm/	'that of me, mine'

- 2) A superfix with allomorphs / ^ / falling tone, / ` / low tone, and zero (no change in tone) makes adverbs from four demonstratives and two numerals.

Examples:

<u>Base</u> <u>Lexeme</u>		<u>Derivative</u>	
/nîi/	'this'	/nîi/	'here'
/nân/	'that'	/nân/	'there'
/nôon/	'yon, the other'	/nôon/	'yonder'
/năj/	'which'	/năj/	'where'
		(zero allomorph of superfix)	
/baaŋ/	'some'	/bâaŋ/	'to some extent'
/nôoj/	'few'	/nôoj/	'a little'

- 3) Two superfixes occur with certain responses and final particles. The first has the shape / ~ /, plain high tone, and means 'question or suggestion; reply or assent expected.' The second has the shape / ^ /, falling tone, or / ' /, constricted high tone, and means 'statement or command; no reply expected.' Both of these superfix morphs require a special toneless allomorph of the base, which consists of the original initial consonant plus a short vowel, usually /a/ but in one case / ɪ /.

Examples:

<u>Base</u> <u>Lexeme</u>		<u>Question</u>	<u>Statement</u>
/khăa/	'woman answering a call politely'	/khă/	/khâ/
/căa/	'answering a child's or equal's call'	/că/	/câ/
/jăa/	'man answering a call rudely'	/jă/	/jâ/
/wéoj/	'answering an intimate's call'	/wă/	/wâ/ <u>or</u> /wâ/
/khrăab/	'man answering a call politely'	/hă/ <u>or</u> /khrăb/	/há/ <u>or</u> /khrâb/
/naa/	'you see'	/nă/ <u>or</u> /năa/	/nâ/
/sɪɪ/	'not otherwise'	/sĩ/	/sî/

- 4) A superfix with the shape / ! ~ : / is used by women on adjective bases with the meaning 'emotional intensification of base meaning.' It is the only truly productive superfix in the language, and like forms infixes with /ə, ε/ (2.3.2.2.), its superfixed forms occur only in close association with the base morpheme itself. All kinds of adjectives on all five tones (other than / ~ /) occur with it. The adjective base occurs in a toneless allomorph to which the superfix / ! ~ : / is added, and is immediately followed by the base morpheme in its usual form. The extra duration represented by / : / is not a morph, and so the complex lexeme which results has three constituent morphs:

Examples:

<u>Base Morpheme</u>		<u>Derivative</u>	
/dii/	'good'	/!dīi: dii/	'excellent!'
/kàw/	'old'	/!kāw: kàw/	'ancient!'
/mâag/	'much'	/!māag: mâag/	'a tremendous amount'
/rōon/	'hot'	/!rōon: rōon/	'blazing!'
/nāaw/	'cold'	/!nāaw: nāaw/	'freezing'

2.3.4. Sub-syllabic Morphemes

Besides prefixes, infixes, and superfixes, ST has a few other morphemes which have no allomorphs equivalent to a whole syllable in form and hence do not correspond to lexemes. The important cases result from the analysis of certain demonstrative and interrogative lexemes, but other classes of lexemes are involved as well.

The following list of sub-syllabic morphemes, together with the list of morphemes having at least one sub-syllabic allomorph given in the next section (2.3.5.), is intended to give a complete view of the internal construction of demonstratives, interrogatives, and their derivatives.

1) /n̄/ (initial /n/ plus constricted high tone) 'demonstrative.' Occurs in /nīi/ 'this,' /nān/ 'that,' /nōon/ 'yon,' and the final particle /nā/ 'you see.' Allomorph /n/ occurs in /nāj/ 'which!' Allomorph / ' / occurs with pronouns (see 2.2.3.2.).

2) /i/ 'close at hand, none other than, present.' Occurs in /nīi/ 'this,' its derivatives /ŋīi/ 'so' and, with falling-tone superfix, /nīi/ 'here' (see 2.3.3.2), also possibly in the final particle /sīi/ 'not otherwise,' the adverb /jūu-dii/ 'all the same,' and the derogatory lexeme /i/ itself: /i wan-nān/ 'that very day,' /i-mēsēw/ 'the (blasted) cat.' (This /i/ is a lexical prefix - see 2.4.1.)

3) /an/ 'farther away, comparatively far, removed from the present' Occurs in /nán/ 'that' and its derivatives /nân/ 'there' and /nán/ 'thus,' possibly also in /than/ 'to catch up, get there.'

4) /oon/ 'other, absolutely far, two removes from the present' Occurs in /nóon/ 'yon, the other of two,' its derivative /nôon/ 'yonder,' and /phóon/ (a regional variant). Allomorphs of this morpheme possibly occur in the demonstrative noun /yyn/ 'others' and the pronoun /phyan/ 'other ones.'

5) /ǎj/ 'which of limited possibilities' Occurs in the demonstrative /nǎj/ 'which,' its derivatives /nǎj/ 'where' and the isolative /nǎj/ 'what do you mean?' and in the question particle /mǎj/ 'yes or no.'

6) /aj/ 'which of unlimited possibilities' Occurs chiefly in the free lexeme /raj/ 'indefinite demonstrative; what, some, any,' its allolex /daj/, and their many derivatives, such as /araj/ 'what,' /thâw-raj/ 'how much,' /mýa-raj/ 'when,' /thii-raj/ 'which instance,' /phûu-daj/ 'anyone,' /mýa-daj/ 'any time,' and /thâw-daj/ 'to any extent.' The morph /aj/ occurs by itself as a sub-syllabic constituent in /thamaj/ 'why' and /jaɾaj/ 'how.' The whole combination /raj/ occurs as a sub-syllabic constituent in /khraj/ 'who.'

7) /âj/ 'the one intended, the correct one of limited possibilities' Occurs in /châj/ 'to be the one intended,' the negative /mâj/ 'not, other than,' and possibly such other lexemes as /hâj/ 'intended for,' /dâj/ 'get, succeed,' and the derogatory lexeme /âj/ itself: /âj-maa/ 'the (blasted) dog' (a lexical prefix - see 2.4.1.)

Allomorph /aj/ occurs in the final particle /nɔj/ 'that's the one,' and possibly in /wáj/ 'for future purposes.'

8) /ŋ/ 'manner' Occurs in /ŋii/ 'so,' /nán/ 'thus,' /nɔj/ 'how; that's the one,' and their derivatives /jaŋii/, /jaŋán/, /jaɾaj/, and /nǎj/ 'what do you mean?'

9) /m/ 'negative' Occurs in /mâj/ 'not, other than' and the question-word /mǎj/ 'yes or no.'

10) /ch ^/ 'designator' Occurs in /châj/ 'to be the one intended,' /chýy/ 'name,' /chên/ 'to be an example of,' and possibly an allomorph occurs in /chii/ 'to point out' and /chán/ 'class.'

Allomorph /cha/ occurs as syllabic morpheme constituent in such lexemes as /chanii/ 'this way, this sort,' /chanán/ 'that way, that sort,' /chanǎj/ 'which sort,' and /chaphó/ 'especially.'

11) /r/ 'indefinite member of class' (opposite of 1) /n ^/) Occurs chiefly in /raj/ 'what, some, any' and its derivatives (see 6) above), but also in the conjunction /rýy/ 'or,' the question-particle /rýy/ and its allolex /rěe/ 'or what,' and possibly in the sentence-particle /ròg/ 'or anything.'

Allomorph /n/ possibly occurs in /nyŋ/ and /n̄yŋ/ 'one, a certain member of the class of.'

12) /yy/ 'equivalent' Occurs in /ch̄y/ 'name,' both lexemes /r̄yy/ above, and in /khyy/ 'that is to say.'

Allomorph /yŋ/ probably occurs in /nyŋ/ and /n̄yŋ/ 'one, a certain member of the class of,' and in the conjunctions /s̄yŋ/ 'such that,' /th̄yŋ/ and /cyŋ/ 'with the result that.'

2.3.5. Morphemes with Sub-syllabic Allomorphs

Many morphemes of ST, other than those mentioned in the preceding sections, have at least one allomorph whose shape is less than a syllable. A list of the most important ones follows.

1) /thi/ 'classifier for instances' Occurs as a free lexeme with the prosodic-suffix morpheme / ' / 'one' in /iig-thi/ 'once more,' and in the following demonstrative phrases (among others): /thi-raj/ 'which time,' /thi-ni/ 'this time,' and /thi-diaw/ 'once.'

Allomorph /thi/ occurs in /thidiaw/ 'quite, completely.'

Allomorphs /th/ and /ch/ occur as sub-syllabic constituents in allomorphs of the above: /thiaw/ and /chiaw/ 'quite, completely.'

2) /an/ 'classifier for things' Occurs as a free lexeme with the prosodic-suffix morpheme / ' / 'one' in /pen an/ 'is one thing, as a unit,' and in the following demonstrative phrases (among others): /an-n̄aj/ 'which one' and /an-ni/ 'this one.'

Allomorph /a/ occurs as a sub-syllabic constituent in /araj/ 'what.'

3) /khon/ 'classifier for people' Occurs as a free lexeme with the prosodic morpheme / ' / 'one' in /iig-khon/ 'one more person,' and in the following demonstrative phrases (among others): /khon-n̄aj/ 'which person' and /khon-n̄an/ 'that person.'

Allomorph /kh/ occurs as a sub-syllabic constituent in /khraj/ 'who.'

4) /tham/ 'to make, do' Occurs as a free verb lexeme in /tham khrua/ 'to do cooking.'

Allomorphs /tha-m/ and /thamm/ occur as a sub-syllabic constituents (syllable plus a fraction) in /thamaj/ 'why,' and its allomorph /thammaj/.

5) /jâaŋ/ 'classifier for kinds of things, adverb of manner'
Occurs as a free lexeme with the prosodic morpheme / ' / in /iŋ-gjâaŋ/ 'one more kind' and in the following demonstrative phrases (among others): /jâaŋ-nîi/ 'this kind,' /jâaŋ-năj/ 'which kind,' and /jâaŋ-raj/ 'how.'

Allomorph /jâŋ/ occurs in variant forms of the same demonstrative phrases: /jâŋ-nîi/, /jâŋ-năj/, /jâŋ-raj/.

Allomorphs /ja-ŋ/ and /jaŋŋ/ occur as sub-syllabic constituents in the following lexical units (which are all allomorphs of forms first listed in 2.3.4.8.): /jaŋi/ and /jaŋŋi/ 'so, this way,' /jaŋân/ and /jaŋŋân/ 'thus, that way,' /jaŋaj/ and /jaŋŋaj/ 'how, what way; that's the one.'

6) /diaw/ 'numeral one' Occurs after classifiers: /khon-diaw/ 'one person, alone.'

Allomorph / ' / occurs in simultaneous order with classifiers and numerals (see 2.2.3.1.)

Allomorph /iaw/ occurs as sub-syllabic constituent in /thiaw/ and /chiaw/ 'quite, completely' (see 1) /thii/ above).

2.4. Lexeme Composition

2.4.1. Derivatives

In the preceding section we have seen second-order lexemes derived from base plus prefix (like /prachum/, 2.3.1.1.), base plus infix (like /damnœn/, 2.3.2.1.), base plus superfix (like /khâ/, 2.3.3.3.), or from a combination of two sub-syllabic morphemes (like /nîi/, 2.3.4.1.), and third-order lexemes derived from superfixed base plus repetition of original base (like /!dii: dii/, 2.3.3.4.), from original base plus repetition with infix (like /kin kên/, 2.3.2.2.), or from addition of a superfix to a combination of sub-syllabic morphemes (like /nîi/, 2.3.3.2.). In all these types of derivative, sub-syllabic morphemes were involved.

ST has still other derivatives, however, in which one of the constituents, while a free lexeme in its own right, is neither a modifier nor a head. Such derivatives are therefore not compounds or reduplications of free lexemes (see 2.4.3.), and must be treated separately.

In most derivatives incorporating two or more constituents which are themselves lexemes, it is the first constituent that recurs in many combinations and is productive of new formations. Such common prior constituents are lexical prefixes. The important lexical prefixes are listed below. All have medium-short syllable duration, unless the second constituent is extremely long and complex, in which case they have medium duration.

1) /kaan-/ 'the act of, affairs of'

Makes abstract nouns from verbs and verb expressions, and from specific nouns and noun expressions.

<u>Base</u>		<u>Derivative</u>	
/wîŋ/	'to run'	/kaan-wîŋ/	'running'
/tâd sÿa/	'to cut clothes'	/kaan-tâd-sÿa/	'tailoring'
/bâan/	'house, home'	/kaan-bâan/	'homework'
/tâaŋ-prathêed/	'foreign'	/kaan-tâaŋ-prathêed/	'foreign affairs'

2) /khwaam-/ 'the condition of, the result of'

Makes abstract nouns from adjectives and adjective expressions, and nouns describing the result or object of action implied by verbs and verb expressions.

<u>Base</u>		<u>Derivative</u>	
/ŋôo/	'stupid'	/khwaam-ŋôo/	'stupidity'
/rúu/	'to know'	/khwaam-rúu/	'knowledge'
/khaw-rób thoŋ/	'to do homage to a flag'	/khwaam khaw-rób thoŋ/	'respect for the flag'

3) /nâa-/ 'worthy of'

Makes adjectives from verbal bases.

/rág/	'to love'	/nâa-rág/	'lovable, cute'
/duu/	'to look at'	/nâa-duu/	'interesting to look at'
/faŋ/	'to listen'	/nâa-faŋ/	'interesting to listen to'

Third-order derivatives containing both 2) /khwaam-/ and 3) /nâa-/ are quite common:

/khwaam-nâa-duu/ 'visual interestingness'

4) /khîi-/ 'having a consistent characteristic of'

Makes adjectives from adjective and verb bases whose meanings imply single instances of behavior rather than characteristic behavior..

<u>Base</u>		<u>Derivative</u>	
/aaŋ/	'to be ashamed'	/khîi-aaŋ/	'bashful'
/kooŋ/	'to defraud'	/khîi-kooŋ/	'deceitful'

/k'iad/	'act slothfully'	/khîi-k'iad/	'lazy'
/maw/	'intoxicated'	/khîi-maw/	'alcoholic'

(Note: /khîi/ 'excrement' is a different lexeme which heads many compounds, all of which are also nouns - e.g. /khîi-taa/ 'eye secretion.' Such compounds cannot be confused with the above derivatives.)

5) /t'aaŋ/ 'other' and /naa-naa/ 'various, plural'

These two lexical prefixes are grouped together because they share many co-constituents. Both make noun derivatives of plural meaning from noun bases.

<u>Base</u>		<u>Derivatives</u>	
/prathêed/	'country, nation'	/t'aaŋ-prathêed/	'foreign countries'
		/naa-naa prathêed/	'countries'
/caŋ-wàd/	'province'	/t'aaŋ-caŋwàd/	'the provinces (outside Bangkok)'
/chan'íd/	'type, kind'	/naa-naa chan'íd/	'various kinds'
/châad/	'race, nation'	/t'aaŋ-châad/	'foreign origin'
		/naa-naa châad/	'races, nations'

6) /khr'yaŋ-/ 'collection, equipment, mechanism'

Makes collective nouns and nouns denoting kinds of machinery from all kinds of bases - nouns, verbs, adjectives, and expressions.

<u>Base</u>		<u>Derivative</u>	
/d'ÿym/	'to drink'	/khr'yaŋ-d'ÿym/	'beverages'
/bin/	'to fly'	/khr'yaŋ-bin/	'airplane'
/phim-di'íd/	'to type'	/khr'yaŋ-phim-di'íd/	'typewriter'
/kar'íi/	'curry'	/khr'yaŋ-kar'íi/	'curry ingredients'

(Examples of the type 'airplane' and 'typewriter' are compounds rather than derivatives, because /khr'yaŋ/ can substitute for the whole.)

7) /khâaŋ-/ and /b'yaŋ-/ 'side, aspect,' and /phaaŋ-/ 'time, place.'

All three of these lexical prefixes make abstract nouns from prepositions having to do with place and time relationships. Examples of all three with the base /l'ǎŋ/ 'after, behind':

/khâaŋ-l'ǎŋ/	'behind, the rear side'
/b'yaŋ-l'ǎŋ/	'behind, the hidden side, the past'
/phaaŋ-l'ǎŋ/	'after, the future'

(For further examples, see /naŋ/-class prepositions, 4.2.1.)

8) /raaj-/ 'case, instance,' and /pracam-/ 'associated with'

These are allomorphs of a lexical prefix which makes nouns referring to frequency of occurrence from nouns designating time-periods. The allomorph /raaj-/ is used only with the smaller units.

<u>Base</u>		<u>Derivatives</u>	
/wan/	'day'	/raaj-wan/	'daily'
		/pracam-wan/	'daily'
/sàb-padaa/	'week'	/raaj-sàbpadaa/	'weekly'
/dyan/	'month'	/raaj-dyan/	'monthly'
/p11/	'year'	/pracam-p11/	'annual'

In a few kinds of derivatives incorporating two or more constituents which are themselves lexemes, the last constituent is the one that recurs and produces new combinations. Such latter constituents are lexical suffixes. Two of the most important ones are exemplified below (9-10). Since they terminate their lexemes, they can have any syllable-duration from medium up, but the preceding constituent usually has medium-short duration.

9) /-caj/ 'heart'

Makes verbs and adjectives having to do with feelings and thought processes from verb and adjective bases.

<u>Base</u>		<u>Derivative</u>	
/d11/	'good'	/d11-caj/	'glad'
/khâw/	'enter'	/khâw-caj/	'understand'
/chôob/	'to like'	/chôob-caj/	'be pleased'
/phoo/	'enough'	/phoo-caj/	'be satisfied.'

10) /-phâab/ 'form, shape'

Makes abstract nouns from noun, verb, and adjective bases. This suffix is nearly in complementary distribution with 2) the prefix /khwaam-/, as far as selection of bases is concerned, and the meaning of the two affixes is about the same: 'the quality of.' The suffix sometimes requires a special allomorph of the base: some bases ending in consonants are extended by a syllable of short duration, which consists of a fortis consonant of the same position as the final of the base, plus the short vowel /a/; other bases have no extension, or unpredictable extensions.

<u>Base</u>		<u>Derivative</u>	
/sěe-r11/	'free'	/sěer11-phâab/	'freedom'
/îd-sarà/	'free'	/îdsarà-phâab/	'freedom'
/khun/	'virtue'	/khun-naphâab/	'quality'
/sùg/	'happiness'	/sùg-kaphâab/	'happiness'
/săn/	'secure, peaceful'	/săn-tiphâab/	'security, peace'

(Note: /khwaam-sùg/ 'happiness' also exists.)

11) Other lexical suffixes worthy of mention:

/-sàad/	'discipline, science'
/-kaan/	'work'
/-kəɔn/	'worker'
/-chíg/ or /íg/	'member'
/-khom/	'month with 31 days'
/-jon/	'month with 30 days'

2.4.2. Compounds

Compounds in ST, as defined here, are characteristically endocentric: the first constituent is the head and all other constituents are modifiers; further constituent cuts can be made on the basis of rhythmic patterns. In nearly all cases, moreover, the form-class of the compound lexeme is the same as that of the head constituent when it occurs as an independent lexeme. Compounds are constructed from all types of head constituent, nouns being the most frequent, then verbs, then adjectives, then numerals, other form-classes being relatively infrequent.

Examples:

/rooŋ/	'hall'	(noun)
/r1an/	'to study'	(verb)
/rooŋ-r1an/	'school'	(noun)
/dəen/	'to walk'	(verb)
/thěew/	'row'	(noun)
/dəen-thěew/	'to march'	(verb)

/kêɛ/	'dark'	(adjective)
/faj/	'fire'	(noun)
/kêɛ-faj/	'scorched'	(adjective)
/hâa/	'five'	(numeral)
/sìb/	'ten'	(numeral) plus rhythmic morpheme /-/ (see 2.2.2.5)
/hâa-sìb/	'fifty'	(numeral)

A few of the lexemes which occur most frequently as head-morphemes are listed below.

/khon-/ and /phûu-/	'agent, the one who does'
/châaŋ-/	'craftsman'
/câw-/	'the one who fills a command or civil service function'
/rɔɔŋ-/	'second-in-command, vice-'
/chaaw-/	'native of, citizen of'
/mêɛ-/	'woman who does'
/thîl-/	'place where something is done'
/rooŋ-/	'public building, hall'
/hông-/	'room'
/bâan-/	'village of'
/myaŋ-/	'town or country of'
/tɔɔn-/	'time or portion of'
/phâag-/	'section of'

The exceptions to this pattern are of four types: 1) the head constituent is a classifier, but the compound is a noun, 2) the first constituent is not the head, and hence the compound is irregular, 3) one constituent or another has a meaning in the compound unrelated to its normal free-meaning, and 4) constituents have irregular allomorphs.

- 1) Classifier as head constituent of a noun compound lexeme. Examples with second constituent /máaj/ 'wood, trees, plants':

/tôn/	'classifier for trees and plants'		
/tôn-máaj/	'tree'	/tôn-máaj sɔɔŋ tôn/	'two trees'

/baj/ 'classifier for leaves, slips of paper, and receptacles'
/baj-máaj/ 'leaf' /baj-máaj sǒɔŋ baj/ 'two leaves'

/dòɔŋ/ 'classifier for flowers and small-patterned objects'
/dòɔŋ-máaj/ 'flower' /dòɔŋ-máaj sǒɔŋ dòɔŋ/ 'two flowers'

Examples involving (4) irregular allomorph of constituent:

/phǒn/ 'classifier for fruits' Allomorph: /lǎmáaj/
/phǒn-lǎmáaj/ 'fruit' /phǒn-lǎmáaj sǒɔŋ phǒn/ 'two fruits'

2) First constituent not head of compound:

Examples with /mahǎa/ 'big', great':

/wíd-thajalaj/ 'college' /mahǎa-wíðthajalaj/ 'university'
/samùd/ 'salt water body' /mahǎa-samùd/ 'ocean'

Examples with /èeg/ 'first':

/àg-kharâad-cathûud/ 'high-ranking diplomat'
/èeg àg-kharâad-cathûud/ 'ambassador'

With (4) irregular allomorph /karâad/:

/râad/ 'reign' /èeg-karâad/ 'autonomous'

Same morpheme /èeg/ in normal compound lexeme:

/naaŋ/ 'woman' /naaŋ-èeg/ 'heroine'

3) Meaning of lexeme not deducible from meanings of constituents as free lexemes:

/tèɛŋ/ to adorn' /ŋaan/ 'work, ceremony, fair'
/tèɛŋ-ŋaan/ 'to be married'
/tòg/ 'to fall' /loŋ/ 'down'
/tòg-loŋ/ 'to agree'
/léɛw/ 'already, over with' /tèɛ/ 'but, only'
/léɛw-tèɛ/ 'depends on, is up to'

4) Irregular allomorphs of constituents.

Examples repeated from above:

/lǎmáaj/ in /phǒn-lǎmáaj/ 'fruit' (1)
/karâad/ in /èeg-karâad/ 'autonomous' (3)

Other examples:

/phon/ 'individual' in /phon-thahǎan/ 'individual military man, private, etc.' (with /thahǎan/ 'military.')

Allomorph /phon-la/ in /phon-laryan/ 'civilian' (with ryan 'household'), and /phon-lamyar/ 'population' (with /myar/ 'town')

/ǎgsǒon/ 'letters, literature' in /ǎgsǒon tám/ 'low class of letters' (with /tám/ 'low')

Allomorph /ǎgsǒon-rǎ/ in /ǎgsǒon-rǎsǎad/ 'the study of literature' (with /sǎad/ 'discipline')

Allomorph /ǎgkhará/ in /ǎgkhará-wíthi1/ 'phonetics' (with /wíthi1/ 'method')

The last two examples also involve reverse order of constituents (2).

2.4.3. Reduplications

All reduplications involve either a repetition of a base lexeme, with or without change in the shape of the base, or a construction of the base lexeme with an element which, while it may not resemble the base morphophonemically, is found only in association with it. The border-line between the two types is not easily drawn (see 2.3.2.3 end), but in all cases the construction is endocentric and the meaning of the reduplicated lexeme is substantially the same as the meaning of the base lexeme, although the form-class may be different.

Nearly all common lexemes of one or two syllables belonging to the major form-classes have special combining elements associated with them which yield more complicated lexemes of roughly the same meaning. If the combining element itself occurs as a free lexeme with a similar meaning, the combination is called a compound (2.4.2.):

<u>Constituent</u>	<u>Constituent</u>	<u>Compound</u>
/tòo/ 'to confront'	/sûu/ 'to compete'	/tòo-sûu/ 'to fight'
/chàb/ 'quick'	/waj/ 'sensitive'	/chàb-waj/ 'alert'

If the combining element is the unchanged form of the base plus some rhythmic morpheme, one of the simple reduplications listed below (1-4) occurs.

If the combining element is an infix or superfix form of the base, one of the complex reduplications listed below (5-8) occurs, and the combining element is an infix reduplicator or a superfix reduplicator.

If the combining element has some other morphophonemic resemblance to the base, one of the irregular reduplications listed below (9-10) occurs. The combining element may be a rhyiming reduplicator, in which some portion of the reduplicator matches the latter portion of the base, or an alliterative reduplicator, in which the beginning of the reduplicator matches the beginning of the base.

If the combining element has no appreciable resemblance to the base, and also does not occur as a free lexeme in a meaning associated with the meaning of the reduplication, a quasi-reduplication occurs. Quasi-reduplications are listed along with irregular reduplications (in 9-11 below).

Examples of rhyiming, alliterative, and quasi reduplicators:

<u>Base</u>		<u>Reduplicator</u>	
/chum/	'to swarm'	/num/	(rhyiming, no meaning)
/phleen/	'to be absorbed'	/phlêed/	(alliterative, no meaning)
/sanug/	'to have fun'	/sanãan/	(alliterative, 'to bathe')
/chûaj/	'to help'	/lÿa/	('to be left over')
/klaan/	'middle'	/thâam/	(no meaning)

For simple reduplications, the order of constituents is irrelevant, but the rhythmic morpheme is important (1-4). For complex reduplications, the order of constituents is fixed, but the rhythmic pattern does not play an important role (5-8). For irregular and quasi reduplications, the order of constituents is variable and significant, but the rhythmic pattern is automatic (9-10). For the last type of quasi-reduplication (11), both order and rhythm are fixed.

The symbols used in the formulae for reduplications are as follows:

B-	base or simple reduplicator
B1-	infixred reduplicator or base
Bs-	superfixred reduplicator
Br-	rhyiming reduplicator
Ba-	alliterative reduplicator
Q-	quasi reduplicator
R-	any of the last three reduplicators (Br, Ba, Q).

1) /B-B/ 'softening or approximizng of base meaning'

The construction consists of a simple reduplication, plus the morpheme /-/ 'sub-lexemic immediate constituent cut.' It occurs

mainly with adjective bases, where it is productive, but also with a few specific minor form-class bases. The reduplicated lexemes from adjective bases function only as modifiers and adverbs, and cannot fill the predicate position (among others). In the modifying position, the base adjective is limiting, while the reduplicated lexeme is non-limiting, and a real contrast results:

/nóg jàj/ 'big birds' (an implied size-classification)
 /nóg jàj-jàj/ 'biggish birds' (incidental information about size)

Other examples:

<u>Base</u>		<u>Reduplication</u>	
/dii/	'good, well'	/dii-dii/	'rather good, rather well'
/ciŋ/	'true'	/ciŋ-ciŋ/	'really'
/lÿyn/	'slipping'	/lÿyn-lÿyn/	'slippery'
/kàw/	'old (of things)'	/kàw-kàw/	'oldish'
/kèɛ/	'old (of people)'	/kèɛ-kèɛ/	'elderly'
/kÿab/	'almost'	/kÿab-kÿab/	'approximately'
/tháŋ/	'the whole of'	/tháŋ-tháŋ/	'including all of'

(The last two examples are not adjective bases.)

2) /B-B/ 'plurality'

This is a homonymous reduplicating construction which occurs with noun and classifier bases only. The noun bases which reduplicate in this way are rather few in number, but the construction is productive for classifier bases. Examples:

<u>Base</u>		<u>Reduplication</u>	
/dèg/	'child'	/dèg-dèg/	'children'
/tâŋ/	'classifier for stacks'	/pen tâŋ-tâŋ/	'in stacks'
/wan/	'day'	/pen wan-wan: paj/	'from day to day'
/kôon/	'classifier for lumps'	/pen kôon-kôon/	'in lumps'

Alternate form of reduplication: /B B/

/pen tâŋ tâŋ/ 'in stacks'

3) /B B/ 'succession of auditory or visual impressions'

This highly productive construction consists of a simple reduplication with medium duration (in practice, never representing the

morpheme / / 'high-order immediate constituent cut' 2.2.2.4) on the first syllable. Nearly all bases that reduplicate in this way also occur, with the superfix / ' / or after numerals, as classifiers meaning 'one instance of such a noise or sight.' The reduplicated lexemes are isolatives, and do not participate in normal syntactic constructions. Examples:

<u>Base</u>		<u>Reduplication</u>	
/kég/	'one rap'	/kég kég/	'with rapping sounds'
/íed/	'one creak'	/íed íed/	'with creaking sounds'
/khamèb/	'a labored breath'	/khamèb khamèb/	'breathing weakly'
/wêéb/	'a flash'	/wêéb wêéb/	'in flashes'

Alternate form /B-B/: /wêéb-wêéb/ 'in flashes'

Base in numeral phrase: /sǒŋ kég/ 'two raps'

Except for the difference in form-class of reduplications of this type, they work exactly like 2) 'plurality' above.

4) /B, B/ 'repetitive action'

The construction consists of a simple reduplication, with the first instance of the base coming at the end of one phrase and the second at the beginning of the next. Although the occurrence of /, / suggests a major immediate constituent cut (rather than a sub-lexemic cut), the correct analysis for /B, B/ is a reduplicated lexeme which belongs to both phrases. Only verb bases occur in this construction.

<u>Base</u>		<u>Reduplication</u>	
/dèen/	'to walk'	/khǎw dèen , dèen: paj naan/	'He walked and walked for a long time.'
/paj/	'to go'	/khǎw dèen: paj , paj phób/	'He walked along until he met...'

Alternate form of reduplication: /B B/

/mɪɪ khon paj paj , maa maa ./
'There were people coming and going.'

5) /B B₁/ 'ridicule or inexactness added to base meaning'

This complex reduplication, infix base following base (with medium duration), occurs only in connection with the infix /eə/- /eə/ (see 2.3.2.2.).

Examples:

/kin/ 'to eat' /kin kɛn/ 'winning and dining'
(For additional examples, see 2.3.2.2.)

6) /B-B₁/ 'intensification of base meaning'

This complex reduplication, infix base following base (with medium-short duration), occurs only in connection with the infix /aa/-/a/ and its allomorphs.

Example:

/ciŋ/ 'true' /ciŋ-caŋ/ 'sincerely'
(For additional examples, see 2.3.2.3.)

7) /B₁-B₁/ 'impressionistic description'

This complex reduplication, consisting of two infix bases (the first of which has the least possible duration) occurs only in connection with the double infix /u-₁/ and its allomorphs.

Example:

/krad^ug-krad^ug/ 'fidgety'
Alternate form: /B₁-B₁ B₁-B₁/.

Example:

/c^og-c^eg c^oo-c^ee/ 'sound of many voices'
(For additional examples, see 2.3.2.4.)

8) /B_s B/ 'emotional intensification of base meaning'

This complex reduplication, superfixed base (with medium-long duration) preceding base, occurs only in connection with the superfix /! ~ : /, and hence only in women's speech. (see 2.3.3.4.)

Example:

/d₁₁/ 'good' /!d₁₁: d₁₁/ 'excellent!'
(For additional examples, see 2.3.3.4.)

9) /B-R/ 'generality or formality'

The construction consists of the base (which has the least possible duration, but not less than medium-short) plus an irregular or quasi reduplicator. Some variants are /B R/, /B-Br/, /B-Ba/, and /B-Q/. It occurs with all types of major form-class bases, rarely with minor form-class bases. The class of the base does not change; adjectives reduplicated in this way, for example, can fill the predicate position. (cf. 1./B-B/ above).

Examples:

<u>Base</u>		<u>Reduplication</u>	
/chum/	'to swarm'	/chum-num/	'to assemble' (B-Br)
/bèd/	'fish-hook'	/bèd-talèd/	'odds and ends' (B-Br)
/faràŋ/	'Occidental'	/faràŋ-maŋkhâa/	'Occidentals and such' (B-Br)
/sanùg/	'to have fun'	/sanùg-sanãan/	'to be amused' (B-Ba)
/wád/	'temple'	/wád-waa/	'temples, etc.' (B-Ba)
/wád-waa/	'temples, etc.'	/wád-waa aaraam/	'religious instal- lations' (a third-order lexeme, /B-Ba Q/, in which /B-Ba/ and /Q/ are constituents)
/chûaj/	'to help'	/chûaj-lÿa/	'to assist' (B-Q)
/bâan/	'home, house'	/bâan-chôoŋ/	'hearth and home' (B-Q)

10) /R-B/ 'precision, specificity'

This construction, the reverse of 7) /B-R/ in form and nearly in meaning, consists of the irregular or quasi reduplicator (which has least duration possible) followed by the base. Some variants are /R B/, /Br-B/, /Ba-B/, and /Q-B/. It occurs mainly with major form-class bases, but also with some important minor form-class bases too. In the latter case, especially, the class membership of the base lexeme is often different from that of the reduplicated lexeme.

Examples:

<u>Base</u>		<u>Reduplication</u>	
/hǒoŋ/	'raise up'	/cǒoŋ-hǒoŋ/	'proud' (Br-B)
/phlœn/	'to be absorbed'	/phlêéd-phlœn/	'completely en- grossed' (Ba-B)
/nyaj/	'to be tired'	/nèd-nyaj/	'exhausted' (Ba-B)
/khǎw/	'hill, mountain, etc.'	/phuu-khǎw/	'mountain' (R-B)
/klaaŋ/	'middle, amidst'	/thâam-klaaŋ/	'exact center' (R-B)
/khâaŋ/	'side, beside'	/khôn-khâaŋ/	'rather, on the side of' (Ba-B)

11) /B Q/ 'ultimate degree'

The construction consists of an adjective or noun base plus a quasi-reduplicator (which may have only a minimal independent existence outside of this construction). The class membership of the reduplication is the same as that of the base. The reduplicator in nearly all cases has the stress pattern / ! : /, which is not a loud-stress morpheme but a part of the reduplicating lexeme itself.

Examples:

<u>Base</u>		<u>Reduplication</u>	
/khǎaw/	'white'	/khǎaw !cúəg:/	'pure white'
/dɛɛŋ/	'red'	/dɛɛŋ !préd:/	'vivid red'
/rew/	'fast'	/rew !prÿy:/	'lightning fast'

2.5. Syntactic Constructions

2.5.1. Simultaneous Constructions

1) A syntactic unit is any lexeme or integral number of lexemes marked by rhythmic evidence (see 2.2.2.) as an immediate constituent of some larger construction, plus the rhythmic morpheme or morphemes which so mark it by occurring simultaneously with it. The minimum syntactic unit is a single lexeme, with or without rhythmic morpheme. The following example contains two minimum syntactic units, the lexemes /paj/ 'go' and /khráb/ 'polite word for men,' which share the simultaneous occurrence of / : / 'phrase construction continues, with major immediate constituent cut here' (2.2.2.1.):

paj: khráb . 'Yes, sir, (he's) going.'

Syntactic units are always smaller than morphophonemic phrases, because of the requirement that immediate constituent cuts be established rhythmically, but they may be of any length. The following sequence is marked off into syntactic units with slant lines for illustrative purposes:

phûu-jǐŋ / khon-nán / mǎj-dǎj-pen / khruu: / ròg / khráb ↑ .
 'That woman isn't a teacher!'

('Woman / one-that / not-actually-be / teacher / utterly / sir! ')
 The sequence ending /khruu:/ is also a syntactic unit.

A sequence of three lexemes, the first two of which have medium syllable-duration / /, corresponds to three syntactic units; the negative rhythmic evidence makes any other division impossible:

chôob kin plaa . 'Likes to eat fish.'

2) A syntactic phrase is any integral number of ordered syntactic units comprising an immediate constituent of a higher order plus whatever loud-stress morphemes may occur simultaneously with the sequence (but not including intonation morphemes which may also occur simultaneously). All syntactic phrases contain at least one syntactic unit of two or more lexeme constituents, or at least two syntactic units with a single lexeme constituent. Syntactic phrases in consecutive order are never longer than phonemic phrases (see examples in 2.5.2.), although those in non-consecutive orders may consist of two or more phonemic phrases (see examples in 2.5.3.).

3) A syntactic clause is any integral number of lower-order syntactic constituents (lexemes, units, or phrases) occurring simultaneously with a single intonation morpheme, plus the intonation morpheme itself. Hence syntactic clauses are always co-extensive with phonemic clauses (see 1.8.4.).

4) A sentence is any syntactic clause considered from the point of view of its constituents and their classification. Sub-types of sentences are listed in 2.6.2., below.

5) A discourse is any sequence of sentences uttered consecutively by the same person, and corresponds roughly to the utterance on the phonemic level. Sentences quoted from the same discourse and used as examples in this grammar are not identified in any special way, but if quoted consecutively are always separated by / . / in the text.

6) An exchange is any sequence of discourses uttered consecutively by different speakers in direct communication with each other. Sentences quoted in the context of an exchange are identified by the prefacing of a capital letter to represent each speaker involved (A, B, Q, R, etc.)

2.5.2. Consecutive-order Constructions

1) An endocentric phrase, or expression, is any consecutive-order syntactic construction such that the first lexeme, or head, can substitute for the whole construction. Endocentric phrases will later be characterized by reference to the form-class of the head (which is also the form-class of the whole phrase), as noun expression, verb expression, etc. Examples:

/bâan phǒm/ 'my home,' from /bâan/ 'house' and /phǒm/ 'I, me.'
(noun expression)

/kin khâaw/ 'to eat,' from /kin/ 'eat' and /khâaw/ 'rice.'
(verb expression)

/dii lâkæen/ 'very good,' from /dii/ 'good' and /lâkæen/ 'very'
(adjective expression).

3) An exocentric construction is any consecutive-order syntactic construction such that no single lexeme or constituent can satisfactorily substitute for the whole construction. Exocentric constructions have no heads, but will later be characterized by reference to the form-class of the first lexeme, as prepositional phrase, classifier phrase, etc., although the construction does not belong to any such form-class. Examples:

/khǒɔŋ phǒm/ 'mine,' from /khǒɔŋ/ 'belonging to' and /phǒm/
'I, me.' (prepositional phrase)

/khorŋ kin/ 'is sure to eat,' from /khorŋ/ 'is sure to' and /kin/
'eat.' (modal phrase)

/mâj-dii/ 'not good,' from /mâj/ 'not' and /dii/ 'good.'
(negative phrase)

If a residual constituent of any kind is in an exocentric construction, it is called a complement rather than an object. (see 2.5.2.2. end).

Example: /khâaw jùu naj-tûu ./ 'The rice is in the cabinet.'

The subject is /khâaw/ 'rice,' the predicator is /jùu/ 'to be located,' and the residue, /naj-tûu/ is a prepositional phrase meaning 'in the cabinet.' /tûu/ is a complement.

4) An equation is any exocentric construction which as a whole is syntactically parallel to a predication; that is, whose second constituent can be substituted for by a predicator: Examples:

wan-níi wan-sǎw . 'Today is Saturday.'

wan-níi róon . 'It's hot today' (predication)

phǒm khǎa-hàg . 'I have a broken leg'

phǒm mâj-sabaaj . 'I'm not well.' (predication)

The first constituent of an equation is the topic; the second constituent is the equational predicator, if a single lexeme, or the equational predicate, if a more complex construction. In the above examples, /wan-níi/ and /phǒm/ are topics, /wan-sǎw/ 'Saturday' is an equational predicator, and /khǎa-hàg/, which is itself a noun expression ('broken leg'), is an equational predicate.

Predications which appear to have two subjects are shown by immediate constituent analysis to consist of a topic plus an equational predicate which is itself a predication. Example:

wan-níi aakàad dii . 'The weather is nice today.'

Here, /wan-níi/ is the topic, and /aakàad dii/ is the equational predicate, consisting of a predication with subject /aakàad/ 'weather' and predicator /dii/ 'good.'

5) An enumeration is any exocentric construction which as a whole is syntactically parallel to an endocentric expression; that is, which can function in a larger construction as modifier, subject, topic, or predicate (but not as a head). Example:

/sǒɔŋ mooŋ/ 'two o'clock'

Neither /sǒɔŋ/ 'two' nor /mooŋ/ 'hours, o'clock' can substitute for the entire phrase, which is exocentric, and nothing can substitute for either constituent so that the result is a predication or endocentric expression. The phrase occurs as a constituent, however, everywhere that endocentric expressions occur. Examples:

Topic: sǒɔŋ mooŋ: lǎew .
'It's two o'clock.'

Equational Predicate: nalíkaa khǒɔŋ-phǒm sǒɔŋ mooŋ .
'My watch (says) two o'clock.'

Subject: sǒɔŋ mooŋ kô-dâj .
'Two o'clock would be all right.'

Modifier: rôd-faj krabuan sǒɔŋ mooŋ .
'The two o'clock train.'

Second Constituent in Larger Exocentric Phrase:
con-thýŋ sǒɔŋ mooŋ .
'Until two o'clock.'

2.5.3. Non-consecutive Constructions

1) Discontinuous constructions occur when one immediate constituent is split by the insertion of another, so that consecutive immediate constituent cuts cannot validly be made. Discontinuous constructions can be found to correspond to all the sub-types of consecutive-order construction listed above (2.5.2.). Examples:

kèed jaan-tèeg: khýn .
'It happened that a tire blew out.'

The predication /jaan tèeg/ 'tire bursts' is included in the discontinuous modal phrase /kèed ... khýn/ 'it originates, a new thing happens.'

khǎw òd phûud khwaan-cij mǎj-dâj .
'He couldn't help telling the truth.'

The verb expression /phûud khwaan-cij/ 'to tell the truth' is included in the discontinuous modal phrase /òd ... mǎj-dâj/ 'not able to keep from.'

2) Paranthenical constructions are a special case of discontinuous constructions, in which the inserted constituent can be 'moved' to another location, without damage to the syntactic relationship, in such a way that a consecutive construction results. That is, for every paranthenical construction, a parallel consecutive construction exists; the same is not true of ordinary discontinuous constructions. Paranthenical constructions of all types occur, and are usually marked by prosodic phenomena of one kind or another. Examples:

khǒo sýy , dâj: mǎj-khrǎb, nũ tua-nĩi, †.

'I'd like to buy - may I, sir? - this mouse.'

The major immediate constituents /khǒo sýy nũ tua-nĩi/ 'I'd like to buy this mouse' and /dâj: mǎj-khrǎb/ 'may I, sir?' also occur in consecutive order in the following sentence:

khǒo sýy nũ tua-nĩi , dâj: mǎj-khrǎb †.

'May I buy this mouse, sir?'

3) Parallel constructions occur when one immediate constituent is repeated two or more times in the same syntactic relationship with a number of different co-constituents. Simple parallel constructions can be found to correspond to all the sub-types of consecutive constructions. The intonation morpheme / , / (see 2.2.1.3) usually separates the segments containing the repeated constituent, and may occur also after the last constituent of the parallel construction. Examples:

paŋ kǒ-dâj , jũu kǒ-dâj .

'You can either go, or stay.'

The constituent /kǒ-dâj/ 'can equally well' is repeated in the same syntactic relationship with /paŋ/ 'go' and /jũu/ 'stay.'

khǎw mǎj-dǎj-aw phêe , aw chaná: kan .

'They don't pay any attention to (who) wins or loses.'

The constituent /aw/ 'to take' occurs twice, before verbs meaning respectively 'to lose' and 'to win.'

Two common conjunctions /tǎaŋ ... tǎaŋ/ 'each in a separate way' and /jĩŋ ... jĩŋ/ 'the more ... the more' occur only in parallel constructions, as does the postposition /phlaaŋ... phlaaŋ/ 'doing one thing intermittently with another.'

4) Discontinuous parallel constructions occur when the separate co-constituents (i.e. not the repeated constituent) are the two halves of a reduplicated lexeme (see 2.4.3.). These constructions are extremely common in colloquial speech, and nearly every type of reduplication except the

simplest is represented, as well as all sub-types of consecutive construction. Examples:

<u>Discontinuous Parallel Construction</u>	<u>Reduplication</u>
aw ciŋ , aw caŋ , 'Act in dead earnest'	ciŋ-caŋ 'sincerely'
paj wád , paj waa , 'go to the temples and such'	wád-waa 'temples, etc.'
mâj paj , mâj pej: lǎ . 'I guess I won't go.'	paj pej 'go, shmo'
hěn nâa , hěn taa , 'See someone in person'	nâa-taa 'face'

5) Interlocking constructions occur when both constituents of a parallel construction are split reduplications. If reduplication /AB/ is in such a construction with reduplication /CD/, the resulting order is /AC,BD,/. Example:

<u>Interlocking Construction</u>	<u>First Reduplication</u>	<u>Second Reduplication</u>
mâag nâa , lǎaj taa , 'Many faces (people)'	mâag-lǎaj 'many'	nâa-taa 'faces'

Interlocking constructions, unlike discontinuous parallel constructions, are extremely rare.

6) Combinations of unusual orders with the various types of syntactic constructions outlined in 2.5.2. yield the following terminology (terms in parentheses are for contrast only):

(Consecutive)	(Normal)	Endocentric Expression
Discontinuous	Parallel	Predication
	Interlocking	Exocentric Phrase
		Equation
		Enumeration

2.6. Classification

2.6.1. Lexeme Categories

All lexemes, regardless of their internal (morphological) construction, are classified in terms of the types of syntactic construction in which they participate. ST has only two broad categories of lexemes, free and bound, but each category has many subdivisions.

1) Free lexemes occur simultaneously with intonation and loud-stress morphemes, and in direct construction with them form minor sentences (see 2.6.2.5.). In simpler terms, they occur 'in isolation.' The major sub-categories of free lexemes are isolatives, substantives and predicatives. They are described in Chapter 3.

2) Bound lexemes occur as constituents of syntactic units and higher-order constructions only. The major sub-categories are prepositions, conjunctions, modals, postpositions, and sentence particles. Chapter 4 deals with bound lexemes.

3) Some free lexemes have homonyms which are bound, and within each category there are homonymous lexemes belonging to different sub-classes. There are also border-line cases between free and bound, but in general the distinction is a clear and important one for ST speakers.

2.6.2. Sentence Types

Sentences are classified with respect to the morphological and syntactic constructions which are their primary constituents. The total number of possible sentence-types is twelve (as can be seen from the summary in 6) below), but by far the most common type is the major sentence, with the exclamatory minor sentence probably coming second.

1) An exclamatory sentence is a clause occurring simultaneously with the intonation morpheme / ↑ / 'emotional involvement.'

s̄ya tua-ní: r̄ěe ↑ . 'Is this the coat?!

2) A complex sentence is any syntactic clause containing the morpheme / , / 'clause construction continues,' provided the occurrence of / , / coincides with a syntactic phrase boundary.

s̄ya tua-ní: r̄ěe , khun sàj m̄ya-khyyn-ní .
'Is this the coat you wore last night?'

The following clause, which also contains / , /, is not a complex sentence because of the occurrence of a discontinuous parallel construction:

dichăn cadâj paj wád, paj waa: kakhăw dŭaj .

'I'll be able to go to the temples and so on along with the others.'

3) A major sentence has a predication as its primary constituent. The second example given above (2) is a major sentence, the predication /dichăn cadâj paj wád-waa/ 'I'll be able to go to the temples, etc.' being merely modified by the remainder. The first example in (2) is not a major sentence, since the second phrase 'you wore last night,' although a predication, is in an equational relationship with the first phrase, which is an enumeration, 'this coat?'

4) An equational sentence has an equation as its primary constituent. The example 'Is this the coat you wore last night?' is hence an equational sentence. Examples of simple (non-complex) equational sentences:

wan-níi wan-săw .	'Today is Saturday.'
phôm chŷy cim .	'My name is Jim.'
phôm khăa-hàg .	'I have a broken leg.'

5) A minor sentence has any other construction or a single lexeme as its primary constituent. Examples are identified by reference to the classification of the principal constituent.

Endocentric Construction:	sŷa tua-níi .	'this coat.'
Exocentric Phrase:	naj tŭu kèb-năŋ-sŷy .	'In the bookcase.'
Enumeration:	sŏoŋ khon: thăw-nán .	'Only two people.'
Single Lexeme:	!tăaj † .	'For heaven's sake!'

6) Combinations of the above sentence-types occur, and the terminology corresponds. (Terms in parentheses are for contrast only.)

(Normal)	(Simple)	Major	
Exclamatory	Complex	Equational	Sentence
		Minor	

CHAPTER III
FREE LEXEME CLASSES

3.1. Isolatives

An isolative is any free lexeme which typically occurs as an immediate constituent of constructions no smaller than an entire syntactic clause (except in hypostasis), or in construction with other isolatives. Isolatives typically occur as sole lexemic constituents of entire phonemic phrases which precede, follow, or interrupt the larger syntactic constructions that are their co-constituents. All isolatives may occur as sole lexemic constituents of entire clauses, but some typically so occur. The classification of isolatives into four sub-groups - 1) Interjections, 2) Responses, 3) Vocatives, and 4) Imitatives - is based on typical occurrence with respect to co-constituents.

Isolatives occur only in the loosest kind of construction with the remainders of their clauses. Only as quotations (e.g. 'He said ouch!') do they enter into normal syntactic relationships, and even here there is often a phrase-boundary to set them apart. A few isolatives seem also belong to other lexeme classes, but meaning relationship is so tenuous that the more reasonable analysis is two homonymous lexemes. For example, the response /jaŋ/ always means 'not yet,' whereas the modal /jaŋ/ means 'still, even now.'

3.1.1. Interjections

An interjection is any isolative all of whose allolexes include the element /! : /. (This is meant to exclude all syntactic constructions in which /! :/ is a superfix.) Interjections typically occur as sole lexemic constituent of the first phrase in a clause, or as sole lexemic constituent of a whole clause. The class of interjections is rather small, but not closed - new interjections enter ST rather frequently, and a few survive for long periods of time. The principal respectable members of the class are listed below in their most common allolexes; meanings are only roughly suggested. (Some extremely common members with obscene or profane connotations have been purposely omitted.)

- | | |
|------------|---|
| 1) /!âaw:/ | 'Well! (chiding or disappointment)' |
| 2) /!mĕɛ:/ | 'Say! My my! (surprise, admiration)' |
| 3) /!ě:/ | 'What? (surprise, lack of understanding)' |

- 4) /!ôo:/ 'Oh! (Now I understand)'
- 5) /!új:/ 'Ouch!'
- 6) /!ôo-hóo:/ (and many allomorphs with the same tonal and consonantal pattern but different vowels-e.g. /!ÿy-hÿy:/) 'How about that!'
- 7) /!tãaj:/ (and many compounds with /taaj/ as first element) 'Good heavens! (horror, shock)'
- 8) /!ôoj:/ 'Wow! (amazement)'
- 9) /!nãj-nãj:/ 'There, there. (soothing).'
- 10) /!nê:/ 'Look!'

3.1.2. Responses

A response is any isolative (other than an interjection) which typically occurs as the sole lexemic constituent of the environment /B,/, where 'B' represents the beginning of an utterance by some later speaker in an exchange (i.e. not the person who opens the exchange). In other words, the response is the sole lexemic constituent of the first phrase of the first clause uttered by a responding speaker. Responses, like many other classes of lexemes, can also occur as the sole lexemic constituent of whole clauses and even whole utterances.

The class of responses is small, and closed except in the semantic area of 'yes' answers, where innovations are possible. Most responses have para-linguistic behavior accompanying them (gestures, facial expressions, and unusual vocal effects) which is not described here. Examples are given in the nearest morphophonemic equivalent of the most common allomorph of each response. Where two allomorphs are common, both are cited. Where meanings are vague, the entire exchange is given:

- 1) /hÿy/ 'Yes (familiar, all speakers).'
- (This item is nasalized throughout.)
- 2) /ee/ 'Yes (concessive).'
- A. kô wan-níi wan-săw: nîi-khrăb † .
- B. ee , ciŋ: sîi .
- A. 'Well today is Saturday!'
- B. 'Yes, that's true.'

- 3) /ǒo/ 'Oh? (skeptical or mildly surprised)'
- A. jùu thîi-pàag sooj sũan-phluu .
- B. ǒo , jùu klâj khêe-níi: eeŋ † .
- A. 'It's at the entrance to Suan-phluu Lane.'
- B. Oh? as close as all that!'
- 4) /ôo/ 'Oh! (sense of loss)'
- A. kèb-wáj sãg-sãam baj: nã .
- B. ôo , chãn pòog: sã-mòd-léew † .
- A. 'Save about three (of the fruits), will you?'
- B. 'Oh, I've peeled them all!'
- 5) /nǎj/ 'Well? What? (further explanation or action required),
but, well but'
- A. wan-níi chãn paj-sýy phãa: maa .
- B. nǎj , aw-maa-duu kan-nòoj: sǐ † .
- A. 'I bought some cloth today.'
- B. 'Well? Let's see it!'
- nǎj , chũaj sòŋ nǎŋ-sýy nán: maa-nòoj .
- 'Say, hand me that book, will you?'
- nǎj , wãa ŋaj: nã † .
- 'What? What did you say?'
- nǎj , wãa camâj-maa: ŋaj † .
- 'Well, but you said you weren't coming!'
- 6) /ŋaj/ or /ŋǎj/ 'Why, well, anyway.'
- ŋaj , maa cháa: nág-lâ.
- 'Well, you're pretty late.'
- ŋǎj , jaŋ mâj-maa .
- 'In any case, it hasn't come yet.'
- 7) /rěe/ 'Is that so?'
- 8) /mâj/ 'No (That choice is not taken).'
- Answers only questions containing the final particle
/rýy/.

- A. wan-níi khun tōŋ paj-wád: rỹ-khã .
 B. māj: khâ , māj-tōŋ paj .
 A. 'Do you have to go to the temple today?'
 B. 'No, I don't have to.'
 A. khun māj-paj wád: rỹ-khã .
 B. māj: khâ .
 A. 'Aren't you going to the temple?'
 B. 'No, I'm not.'

9) /jaŋ/ 'Not yet.'

Negatively answers all questions in which an assumption is made that an event will occur, or a situation pertain, sooner or later.

- A. thaan khâaw: léew rỹ-jaŋ .
 B. jaŋ , jaŋ māj-dâj-thaan .
 A. 'Have you eaten yet?'
 B. 'No, I haven't eaten yet.'

10) /plàaw/ 'No (the assumption or inference is wrong).'

Negatively answers yes-no questions (other than those answered by 8) and 9), and points out the inapplicability of questions containing interrogative words.

- A. wan-nán khun paj-wád , chāj: māj-khã .
 B. plàaw: khâ , chãn māj-dâj-paj .
 A. 'You went to the temple that day, didn't you?'
 B. 'No, ma'am. I didn't go there.'
 A. paj năj: khã .
 B. plàaw: khâ , maa-dəen lên .
 A. 'Where are you going?'
 B. 'Nowhere. I'm just out for a walk.'

- 11) /khráab/ 'Yes (man speaking politely).'
Occurs in answer to all types of questions, but merely indicates that the speaker has followed the line of discourse, not that he specifically agrees to everything said. Also occurs after non-questions. After commands, it nearly always implies intent to obey.
- 12) /khráab/ 'Yes? (man answering a call politely).'
A. khun cìd: khráb ↑ .
B. khráab .
A. 'Say, Chit...'
B. 'Yes?'
- 13) /khâ/ 'Yes (woman speaking politely).'
Parallel to 11) /khráab/.
- 14) /khăa/ 'Yes? (woman answering a call politely).'
Parallel to 12) /khráab/.
- 15) /câ/ 'Yes (among intimates, or to an inferior).'
Parallel to 11).
- 16) /căa/ 'Yes? (among intimates, or to an inferior)'
Parallel to 12).

Responses 5-10 above are frequently followed in their phrase or clause by sentence particles (4.5.), a class of unstressed bound lexemes some of which have a morphological relationship with responses 11-16 above. Because of the stress pattern, such cases are not examples of two responses in construction with each other; the first item is always the response, the second the sentence particle. Examples:

năj: 5	khráb .	'What's that?'
mâj: 8	khâ .	'No, ma'am.'
jaŋ: 9	câ .	'Not yet.'
plàaw: 10	khráb .	'No, sir.'

All responses can be followed in the same clause by vocatives (3.1.3.), which are normally in a phrase by themselves.

3.1.3. Vocatives

A vocative is any isolative which typically occurs as the sole lexemic constituent of the environment /, ./ (i.e. the final phrase of a clause). Most vocatives also occur as the only lexemic constituent of an entire clause, or with a sentence particle as co-constituent, the usual case being the speaker's attempt to attract the attention of a particular listener.

The class of vocatives is extremely large and open. There are four sub-categories (semantically classified): 1) general vocatives, 2) names, 3) kinship terms, 4) titles, and 5) complex vocatives. Representative examples for each sub-category are given below.

1) /nîi/ 'general vocative'

Like most general vocatives, /nîi/ has homonyms, the principal one being a demonstrative meaning 'here.' The vocative /nîi/ is also easily mistaken for a homonymous sentence particle, but its classification as a vocative is corroborated by the fact that it occurs in a separate phrase after final particles like /khráb/ and /khâ/.

Examples:

khun mâj-paj baaj-sëen: ròg rě-khã , nîi † .

'Then you're not going to Bangsaen after all? (is that what you mean?)'

phôm mâj-dâj-paj năj: ləej khráb , nîi † .

'I didn't go anywhere at all, (you)!'

2) /cìd/ 'name of a man'

Used without title or kinship term, given names or nicknames of people commonly occur in the typical vocative positions in familiar speech.

Examples:

phôm mâj-dâj-paj năj: ləej hã , cìd † .

'I didn't go anywhere at all, Chit!'

cìd: wóoj † .

'Hey, Chit!'

3) /phîi/ 'older brother, sister, or cousin; husband'

Nearly all kinship terms occur as vocatives, sometimes with much broader meanings than they have as nouns. For example, /luŋ/ technically means 'older brother of mother or father,' but as a vocative (and in other uses) can apply to any male stranger of a certain age.

Examples: wâa jaŋaj: nǎ , phîi .
 'What did you say, (husband)?'
 phîi † .
 'Sister!' (calling)

4) /naaj/ 'Master.'

Many titles, like /naaj/, have homonyms which are vocatives, but as in the case of kinship terms, the meaning may be quite different. For example, /naaj/ as a formal title meaning 'Mister' is low in the social scale, but as a vocative confers respect. Other titles do not occur as vocatives at all; e.g. /phajaa/ 'high-ranking civil servant' is replaced by /câw-khun/ in all forms of direct address. *

Examples: phǒm mâj-dâj-paj nǎj: læəj khráb , naaj † .
 'I didn't go anywhere at all, master.'
 naaj: khǎ .
 'Master?' (woman servant calling)

5) Apparent constructions of two or more vocatives always turn out to be morphological rather than syntactic constructions. The cases in question are kinship term (3) or title (4) plus name (2), and title (4) plus kinship term (3). The result is a single lexeme (always an indivisible unit, whether it is a vocative or a noun, syntactically speaking), which is an endocentric derivative, rather than a compound, because the name or kinship term substitutes for the whole.

Examples:	thân samíd 4 2	'Mr. Smith.'
	nóəj lǎaj 3 2	'Younger sister Luay.'
	khun phôə 4 3	'(Mr.) Father.'

* An as yet unpublished pamphlet by James N. Mosel, entitled 'Thai Names, Ranks, and Titles' contains much information on this subject.

3.1.4. Imitatives

An imitative is any isolative (other than an interjection, 3.1.1.) which is, morphologically speaking, a reduplication (2.4.3.). Imitatives typically occur in the same environment as vocatives, / , . /, but if a sentence particle occurs, it follows the imitative (whereas it precedes the vocative phrase). Imitatives also occur, somewhat rarely, as co-constituents of discontinuous syntactic constructions which bracket them; in such cases, the imitative usually occupies a whole internal morphophonemic phrase of its own (see example under 3) below.)

The class of imitatives is large, and almost certainly open, although idiolectal variations make it difficult to determine what kinds of innovations are acceptable. The sub-categories of imitatives are determined by reference to structural type of reduplication, but this classification accords well with semantic sub-categories as well. 1) Simple-reduplication imitatives are mostly onomatopoeic, the imitation presumably having to do with sound. 2) Double-infixed imitatives are largely concerned with manner of motion, and 3) Single-infixed imitatives with characteristics of people. One example is given for each sub-category below.

- 1) khǎw dâj-jin sǎŋ , iéd-iéd .
'He heard something go creak-creak.'
- 2) mǎa-kíi hěŋ khun dēen , kaphlòog-kaphlèeg .
'A moment ago I saw you walking with a limp.'
- 3) khǎw cháaj ŋen khǒoŋ-khǎw , surûj-surâaj , paj mò: thǎŋ-nán .
'He used up all his money, in spendthrift fashion.'
(The immediate constituents are the imitative /surûj-surâaj/
and the discontinuous remainder of the clause.)

3.2. Substantives

A substantive is any free lexeme which occurs as co-constituent of a predication of which it is not the predicator. Thus substantives typically function as topics, subjects, objects, and complements. (Any substantive which fulfills not only the definition above but also that of predicative, 3.3., is referred to in this grammar by the more specific designation. In fact, nearly all predicatives qualify as substantives, but the reverse is not true. To put it another way, a non-isolative free lexeme is considered to be a substantive until it can be shown to be a predicative; once the

latter classification has been established, however, the item is thenceforth a predicative.) Some substantives also function as equational predicators, and nearly all occur in prepositional phrases.

Substantives are classified, on the basis of typical and absolute occurrence, into six sub-groups: 1) Nouns, 2) Complementives, 3) Pronouns, 4) Numerals, 5) Classifiers, and 6) Demonstratives.

3.2.1. Nouns

A noun is any substantive which occurs as the head of an endocentric expression. (Other types of substantives, particularly numerals and classifiers, also satisfy this definition, but are referred to by the more specific term once they have been shown to satisfy further criteria.) The characteristic syntactic positions of nouns are those of substantives in general; the only distinctive use of nouns, as opposed to other substantives, is their frequent and typical occurrence as heads of noun expressions (see 2.4.2.).

Of all the lexeme-classes of ST, the class of nouns is by far the largest, comprising well over half of the entire vocabulary. The class is also one of the most open - nearly all new lexical items entering the language, whether by borrowing, innovation, or new-formation, begin as nouns. At the same time there is continuous loss from the inventory, as nouns become predicatives by innovation.

Nouns are classified on the basis of their relationships with other form-classes into eight sub-categories. One example of each is given below.

- 1) Concrete nouns have a covert lexical relationship with one or more of the unit-classifiers (3.2.5.1.) necessary in counting operations.

/mǎa/	'dog'
mǎa sǒŋ tua .	'Two dogs.'

- 2) Mass nouns are counted only by one or more of the metric classifiers (3.2.5.2.)

/náam/	'water'
náam sǒŋ thûaj .	'Two cups of water.'

- 3) Common nouns are counted with both unit classifiers and metric classifiers. Most ST nouns fall into this category.

/phâa/	'cloth'
phâa sǒŋ phÿyn .	'Two cloths (strips or pieces of cloth).'

phâa sǒŋ méđ . 'Two metres of cloth.'

- 4) Abstract nouns serve as their own counters, occurring both before and after numerals.

/wíchaa/ 'subject of study, discipline'

wíchaa sǒŋ wíchaa . 'Two disciplines.'

- 5) Place nouns are a special case of abstract nouns, which typically occur in prepositional phrases and are counted either with themselves or with the general classifier /hèeŋ/.

/ráan/ 'shop, store'

ráan sǒŋ ráan . 'Two stores.'

ráan sǒŋ hèeŋ . 'Two stores.'

- 6) Time nouns are a special case of abstract nouns, which typically occur in prepositional phrases and are used as classifiers themselves but do not occur twice in the counting-phrase.

/dyan/ 'month'

naŋ dyan rêeŋ . 'In the first month.'

phaaŋ-naŋ sǒŋ dyan . 'Within two months.'

- 7) Personal nouns occur also as vocatives (3.1.3.), and are of four sub-types: names, kinship terms, titles, and combinations (derivatives). Personal nouns occur as heads of endocentric expressions much less often than any other type of noun. When counted, they usually take the classifier /khon/ (as do many other nouns which do not belong to this category).

/phîi/ 'older sibling or cousin; husband'

phîi sǒŋ khon . 'Two older siblings.'

- 8) Personal-attribute nouns fill the subject position in equational predicates of which a personal noun is the topic. This subcategory is largely limited to parts of the body and individual characteristics (such as 'name,' 'age,' 'weight,' etc.).

/myy/ 'hand, arm'

khun-cìđ myy jaaw . 'Chit has long arms.'

3.2.2. Complementives

A complementive is any substantive which occurs only as a whole predicate constituent in itself, or as a modifier, never as a head. (Other substantives, e.g. demonstratives, which satisfy this definition, but also meet more specific criteria, are referred to by the more specific term.) The categories of noun and complementive are thus mutually exclusive, and their behavior within the clause framework is quite different.

In predications consisting of only two constituents (subject and predicator, or predicator and object), complementives appear deceptively like nouns. When the same predications are expanded to include real nouns, however, the complementives invariably move either to the front or the end of the clause. Complementives do not occur between nouns and predicators, unless there is a specific modifying relationship between them and the nouns (i.e. the complementive involved is part of a noun expression).

In the following examples, /khruu/ 'teacher' is a noun, and /m̂ya-raj/ 'when' is a complementive.

khruu cabòog .	'The teacher will tell (them).'
cabòog khruu .	'(Someone) will tell the teacher.'
m̂ya-raj cabòog .	'When will (you) tell (me)?'
cabòog m̂ya-raj .	'When would (you) tell (me)?'
m̂ya-raj khruu cabòog .	'When will the teacher tell (them)?'
cabòog khruu m̂ya-raj .	'When would (you) tell the teacher?'

Complementives by themselves occur typically as topics and complements, less often as subjects and objects. Sub-classification is made, on the basis of typical occurrence, into three categories: 1) those which are found most frequently at or near the beginnings of clauses, 2) those which are found most frequently at or near the ends of clauses, and 3) those which occur freely in both positions. The last category (and to some extent all complementives) have the common feature that position before or after the predicator makes relatively little difference insofar as the meaning of the entire clause is concerned, whereas the subject-object distinction is a vital one where nouns are involved. In this sense, complementives are 'moveable' in the clause context, while the position of nouns is fixed.

The three sub-categories of complementives are named, after typical members, 1) the /baŋ-əen/ class, 2) the /eəŋ/ class, and 3) the /thamaj/ class.

1) /baŋ-əən/ Class

The class consists of complementives which occur at the beginning of clauses, coming even before the subject or topic. The class meaning is 'setting of the subject-predicate situation with regard to timing, frequency, or relative importance.' Most members of the class are morphemically complex lexemes, /baŋ-əən/ itself being one of the few members which consist of a single morpheme. Some members have characteristic echoes later in the clause, these are indicated where possible.

The class is open and very large, including many (but by no means all) time expressions, plus a large number of conjunction-like transitional expressions which are not themselves conjunctions. Only the most common and representative members are illustrated below, with reference to a single frame:

/...ròd sĩa ./

'...the car broke down.'

- | | | |
|-----|---------------------------------------|--|
| 1) | /baŋ-əən/ or /pha-əən/ | 'accidentally' Often followed by /khÿn/. |
| 2) | /baŋ-thi1/ | 'perhaps, sometimes' When followed by /lamãŋ/, the meaning is nearly always 'perhaps.' |
| 3. | /thamadaa/ | 'normally, usually' |
| 4. | /jùu di1-di1/ | 'out of a clear blue sky, unexpectedly' |
| 5. | /dooj-mâag/ and /sùan-mâag/ | 'usually, for the most part' |
| 6. | /dooj-chaphó/ | 'in particular, especially' |
| 7. | /sèd-léew/ | 'after that' |
| 8. | /thÿŋ-nán/ | 'in spite of that' |
| 9. | /phrǝ-čanán/ | 'because of that' |
| 10. | /mĩ-čanán/ | 'otherwise, except for that' |
| 11. | /jaŋa j-kǝtaam/ and
/jaŋa j-kǝdi1/ | 'nevertheless' Often followed by /mÿan-kan/. |

2) /eɛŋ/ Class

The class consists of complementives which occur at the end of clauses, coming after the object and some types of complements. The class meaning is something like 'reinforcement of prior information about quantity, exclusiveness, or inclusiveness of the subject matter or manner of action.' Several members, in fact, are most commonly found after specific prior elements in the predicate (this information being given in the listing). There are, however, no real pairs of semantic opposites.

/eɛŋ/-class complementives are among the most common of all clause constituents. The class is open and moderately large, and it includes stressed homonyms of several common bound lexemes.

1. /eɛŋ/ 'by itself (themselves), without assistance or outside influence.'

mɛɛw man-maa: sǎ eɛŋ .

'The cat came all by itself. (It wasn't brought here by somebody.)'

pen thamadaa: jùu eɛŋ .

'It's only natural. (It's nature by itself.)'

2. /dûaj-kan/ or /dǎj-kan/ 'along with others, in company.'

phǒm khǒc dɛɛn: paj dûaj-kan , dǎj: mǎj .

'May I walk along (with you)?'

khǎw samàg calên kàb-khǎw: dûaj-kan .

'He offered to play along with them.'

3. /ìig/ 'in addition, further, still' Often follows /jaŋ/.

léew , khǎw kǒ-mǎj-maa: sǎ ìig † .

'And he didn't come this time, either.'

nóoŋ-chaaj jaŋ pen nág-rían: ìig.

'Younger brother was still a student.'

4. /thâw-nán/ or /thǎw-nán/ 'only, no more than that.' Often follows /tèɛ/.

khuan catham hǎj-séd: paj , thâw-nán.

'We just ought to get it finished, that's all.'

khǎw aw tèɛ-kin: thǎw-nán.

'The only thing he wants to do is eat.'

5. /dûaj/ 'also, in addition to some other fact.'
- lɛ́ɛw , khǎw kɔ̃-mǎj-maa: sǎ dûaj.
 'And he himself didn't come, either.' (Compare with first example under 3. /iɪg/.)
- nóɔŋ-chaaj , pen nág-rɪan: jùu dûaj.
 'Younger brother is also a student (in addition to being something else).' (Compare with first example under 6. /mǎn-kan/.)
6. /mǎn-kan/ or /mɛ̃n-kan/ 'likewise, in addition to some other subject; anyway, at that'
- nóɔŋ-chaaj , pen nág-rɪan: jùu mǎn-kan .
 'Younger brother is also a student (like some other person.)'
- kô phǒm chòob: mɛ̃n-kan †
 'Well, I like it all right... (but)'
- khǎw kô-tâŋcaj wâa , camaa mǎn-kan .
 'He decided he would come anyway (even so).'
7. /taŋ-hàag/ or /tàaŋ-hàag/ 'on the contrary, instead.' Usually untranslatable in English. Often preceded by a /mâj/ -modal in the previous clause.
- phǒm mǎj-dǎj-chýy phoon . chýy phǒn: taŋ-hàag .
 'My name isn't Porn. It's Pone.'
- khǎw klàb bâan: sǎ taŋ-hàag .
 'He went home (rather than doing something else).'
8. /jùu-dɪɪ/ 'in spite of everything, anyway'
- khǎw rúu-tua: wâa , khǎw mâj-sabaaɟ máag † khǎw kɔ̃-jaŋ paj tham ɲaan: jùu-dɪɪ .
 'He realized that he was very sick, but he went to work in spite of it.'
9. /than-thɪɪ/ 'immediately'
- klàb bâan than-thɪɪ. sɪ .
 'go right on home.'
10. /lœɟ/ 'simply,' after negative 'at all'. Often preceded by a /mâj/ -modal in the same clause.
- khǎw kô-klàb bâan: lœɟ .
 'He simply went home.'

khăw mãj-dăj-klàb bâan: sǎ ləej .

'He didn't go home at all.'

thîi-nîi mǎj-mii satəm: ləej .

'There aren't any stamps here at all.'

- 11) /thii/ 'this one time, for once.' Often follows general modal verbs like /khǒo/ (3.3.1.2.) in commands and requests.

phǒm jàag capaj: sǎ thii .

'I'd like to go this once. (Now is the time.)'

khǒo hǎj khăw duu: thii .

'Let him have a look at it.'

paj sǎ-thii: sî .

'Why don't you go!'

- 12) /nòoj/ or /nòj/ 'this little thing, for a while' Often follows general modal verbs like /khǒo/ in commands and requests.

phǒm jàag capaj: sǎ nòoj .

'I'd like to try going. (It's the thing to do.)'

waan nâj nîj-nîj: nòj, dâj: mãj.

'Can you sit still for a minute?'

kwàad bâan sǎ-nòoj: sî † .

'Sweep up the house, will you?'

- 13) /kǎ-léew: kan/ 'and be done with it.' Common in suggestions and agreements, and is usually set off in a phrase of its own.

plòoj hâj-paj , kǎ-léew: kan .

'Let it go and be done with it.'

3. /thamaj/ Class

These complementives belong to both the /baŋ-əen/ (1. above) and the /eəŋ/ (2. above) classes; that is, they occur at both the beginning and end of clauses. The class meaning is 'time, place, or manner-orientation of the subject-predicate situation.' The placement of the items also makes a slight but consistent difference in their meaning; the clause-final position makes the time, place, or manner element distinctive, and the clause-initial position makes it incidental. The occurrence of bound elements like /thŷŋ/ and

/sã/ around the predicate reinforces this distinction (see first pair of examples below).

The class is probably closed, but is quite large, since it includes a great many standard time expressions, such as 'yesterday,' and most interrogative lexemes. The examples given below are representative ones.

1) /thamaɟ/ 'why?'

thamaɟ , khãw thỹŋ-maa hãa khun .
'Why did he (happen to) come calling on you?'
khãw maa hãa khun: sã , thamaɟ .
'What did he come calling on you for?'

2) /jaŋaɟ/ or /jàaŋ-raɟ/ 'how?'

jaŋaɟ thỹŋ-tham nãa jaŋán: lâ † .
'How did your face get like that?'
tham nãa jaŋán , dâɟ jaŋaɟ: lâ.
'How can you make your face like that?'

3) /mỹa-raɟ/ or /mẽraɟ/ 'when?'

khun capaɟ amee-rĩkaa , mẽa-raɟ .
'When are you going to America?'
mỹa-raɟ , khun capaɟ amee-rĩkaa .
'When would you ever go to America?'
khun pen thahãan mẽraɟ † .
'When were you a soldier?'

4) /thĩl-nãɟ/ or /thĩnãɟ/ 'where?'

khãw còod ród: wáɟ , thĩl-nãɟ .
'Where did he park the car?'
thĩnãɟ , thĩl khãw còod ród .
'Where was it he parked the car?'

5) /jaŋán/ 'that way,' and /jaŋíɪ/ 'this way'

jaŋán , khun mãɟ-tôŋ-kaan íŋ: rỹy .
'In that case you don't need it any more.?'
khun tôŋ-kaan jaŋíɪ: rỹy .
'Is this the way you want it?'

6. /pho-dii/ 'just then,' /dǎaw-níi/ 'now,' /welaa-nán/ 'at that time,' /tòò-paj/ 'from now on,' /tòò-maa/ 'from then on,' and many other time expressions.

raw kamlaj phûud thǎj khun: jùu thi-diaw , pho-dii khun maa .

'We were just talking about you, and then you came.'

raw kamlaj phûud thǎj khun-samàg: jùu thi-diaw , khǎw maa pho-dii .

'We were just talking about Samak when he came.'

dǎaw-níi , phǒm mii thurá mãag .

'Now, I'm very busy.'

phǒm mii thurá mãag , dǎaw-níi .

'I'm very busy now.'

welaa-nán , khǎw jaj-jùu naj kruj-thêeb .

'At that time he was still in Bangkok.'

7. /thîi-nîi/ or /thǐnîi/ 'here,' /thîi-nân/ or /thǐnân/ 'there,' /thîi-nôn/ or /thǐnôn/ 'over there, at the other place,' /kha-thîi/ 'on the spot,' and many other place expressions.

thîi-nîi , mǎj-mii náam .

'There's no water here (incidentally).'

mii náam , thîi-nôn .

'There's water way over there (that's where it is).'

thîi-nân mii khèj-máa thúg-wan .

'They have horse-racing there daily (that's one of the things they have).'

man taaj kha-thîi .

'It died on the spot.'

8. /khâaj-naj/ 'inside' and all derivatives of /naj/-class prepositions (4.2.1.) belong in this class of complementives, except when they function as prepositions themselves.

The class of pronouns is small, but not closed (for a recent innovation, see the 23rd set under 1) below). While it is often difficult to pin down the meanings of pronouns, to some extent they do occur in structural sets. Such sets can be established by analysis of single exchanges (involving only two speakers), where social requirements dictate the choice of first and second person pronouns, the same pronouns being selected throughout the exchange. Third person and other pronoun selection, however, does not depend entirely on the relationship between speaker and hearer, but also on the status of persons referred to, and hence no similar sets can be established beyond the first and second person level.

Pronouns are sub-classified, therefore, into two groups: 1) members of sets, and 2) general pronouns. Some indication of meaning and social connotations has been attempted, but translations are of necessity vague. Certain sets containing only one real pronoun are filled out with kinship terms, which have normal stress and are personal nouns (3.2.1.7.). Other sets are filled out with ordinary nouns. The suppletive items which are not pronouns are given in parentheses.

Where there are several variant forms of a pronoun lexeme, the most common citation form is listed first, with less careful variants listed below in descending order of formality, under the first occurrence.

1) Pronoun sets

<u>Situation</u>	<u>First Person</u>	<u>Second Person</u>
1. General polite, male speaker	ph ^h om ph ^h om	khun
2. General polite, female speaker	dich ^h an dih ^h an d ^h ian ich ^h an ih ^h an ian aah ^h an	khun
3. Deferential, male speaker	ph ^h om	th ^h an
4. Deferential, female speaker	dich ^h an	th ^h an

<u>Situation</u>	<u>First Person</u>	<u>Second Person</u>
5. To non-royal but extremely high-ranking superiors, male speaker	kraphǒm	(tâj-tháaw)
6. Same, female speaker	dichǎn	(tâj-tháaw)
7. Adult to child	chǎn (or kinship term)	nũu
8. Child to adult	nũu	(kinship term)
9. Parent to child	khâa (or kinship term)	(lũug)
10. Parent to child	khâa	câw cǎw
11. Parent to child	khâa	kεε
12. Parent to child	khâa	eŋ
13. Parent to daughter	kuu	eŋ
14. Parent to son	kuu	myŋ
15. Child to parent	nũu	(kinship term)
16. Child to older sibling	nũu	(phîi)
17. Intimate, boy to girl, or among very young boys and girls	chǎn	thee
18. Intimate, girl to boy, or among older girls	chǎn	khun
19. Intimate, among young adult friends of the same sex	chǎn	kεε
20. Intimate, among older girls	chǎn	(naaj)
21. Intimate, among older girls (less often, boys)	raw	tua
22. Intimate, among older girls, or between man and wife	khǎw	tua
23. Intimate, among modern boys and girls	aa j	juu
24. Intimate, among adolescent boys	úa úe	lýy

25. Intimate, among boys and young men	kan	lýy
26. Intimate, among men	kan	raw
27. Crude, among boys and men	khâa	eŋ
28. Crude, among boys and men	kuu	myŋ

Remaining sets are either reciprocal kinship terms - e.g. /phũa/ 'I (husband speaking), you (wife speaking)' and /mia/ 'I (wife speaking), you (husband speaking)' - or paired expressions - e.g. /khãa-phacâw/ 'I (public speaker)' and /thân thấŋ-lăaj/ 'you plural (audience).'

2) General Pronouns

The following pronouns have more general meaning, and all can be used without regard to the social relationship of speaker and listener. For those pronouns which also occur as members of sets, the number in parentheses after the translation indicates whether the set member is a first person (1) or second person (2) pronoun.

1. /phrã-oŋ/	'royal or revered third person'	
2. /thân/	'respected third person'	(2)
3. /kɛɛ/	'familiar third person of our group'	(2)
4. /khăw/	'general third person; outsider'	(1)
5. /thəe/	'respected but younger or female third person'	(2)
6. /man/	'inferior third person; animal, child, or thing; it'	
7. /raw/	'we; I and my group; you and I'	(1,2)
8. /kan/	'each other; mutually; as a group'	(1)
9. /tua/	'oneself; individually'	(2)
10. /ton/	'oneself, itself' (slightly literary)	
11. /khraŋ/	'who, someone, anyone'	
12. /araŋ/	'what, something, anything'	

The singular-plural distinction is irrelevant for third-person (1-6 above), all of which can be translated 'he, she, they' (/man/ can also be translated 'it'). The pronouns /raw/ and /kan/ (7-8) are always plural when they are used as general pronouns, and are also nearly in complementary distribution. /raw/ occurs chiefly before the predicator and in stressed position (e.g. as head of a pronoun expression, or object of a preposition).

/kan/ occurs after the predicator, and if there is no subject, its meaning is nearly always 'we' or 'ourselves.' It can follow any subject (including /raw/) and has the effect of pluralizing that subject - 'they, you (plural), etc.'

The general pronouns /tua/ and /ton/ (9-10) are normally singular in meaning, and like /kan/ are often reflexive:

/khâa tua taaj/	'to kill oneself'
/khâa kan taaj/	'to kill each other.'

The pronouns /khraj/ and /araj/ (11-12) share an interrogative or indefinite meaning, neither singular nor plural, but can be pluralized by the addition of a bound lexeme /bâaŋ/ 'some':

/khraj: bâaŋ/	'who (plural)'
/araj: bâaŋ/	'what (plural)'

The pronouns /khãw/ and /khraj/ are the most common substitutes for personal nouns, and the pronouns /man/ and /araj/ for other types of nouns. These four members of the general category are hence the most frequently used, with /phôm/, /dichãn/, and /khun/ leading the set category.

3.2.4. Demonstratives

A demonstrative is any substantive which is invariably the last free lexeme in any non-predicate construction in which it occurs (e.g. enumerations and endocentric substantive expressions). Demonstratives by themselves do occur in most of the typical substantive positions - topic, subject, object, complement - but of course are never heads. Their chief function, however, is that of modifier; hence they are a special case of complementives (3.2.2.). The occurrence of a demonstrative is a sure sign that an endocentric expression has come to an end; the same is not true of /eeŋ/-class complementives (3.2.2.3.). In the following examples, /níi/ 'this' is a demonstrative.

bâan jàj .	'The house is big'
	or
	'A big house.'
bâan níi jàj .	'This house is big.'
bâan jàj níi .	'This big house.'
níi bâan jàj .	'This is the big house.'

The class of demonstratives is small and closed, and the members seem to exclude each other semantically. There are two sub-categories: 1) /níi/-class demonstratives, and 2) /diaw/-class demonstratives.

1) /níi/ Class

The members of this class are morphologically complex (see 2.3.3.2.). All but one have distinct emphatic forms alongside their base forms; two have special plural forms. The class meaning is 'specification by relative location.'

- | | | |
|----|-----------|---|
| 1. | /níi/ | 'this, these; closer to me' |
| | /lâw-níi/ | 'these' |
| | /nîi/ | 'this one here, these here' |
| 2. | /nán/ | 'that, those; closer to you' |
| | /lâw-nán/ | 'those' |
| | /nân/ | 'that one there, those there' |
| 3. | /nôon/ | 'yon; distant from us; the other, the others' |
| | /nôon/ | 'that one yonder, those yonder' |
| 4. | /nǎj/ | 'which; one or ones of limited possibilities' |

2) /diaw/ Class

The class meaning is 'specification (or non-specification) by reference to the entire range of possibilities.' The members of this class occur independently (i.e. outside of enumerations or endocentric expressions) much less often than /níi/-class demonstratives; they are nearly always modifiers.

- | | | |
|----|----------------|--|
| 1. | /diaw/ | 'one, a single one' |
| 2. | /diaw-kan/ | 'the same one' |
| 3. | /nyŋ/ or /nyŋ/ | 'a, a certain one (not specified)' |
| 4. | /daj/ or /raj/ | 'whatever; one of limitless possibilities' |
| 5. | /rêeg/ | 'first (historically)' |
| 6. | /sùd-thaáj/ | 'last' |

- | | |
|-----------|--|
| 7. /dɛɛm/ | 'former, original' |
| 8. /ɣyn/ | 'other, others; unspecified additional ones' |
| 9. /nâa/ | 'next' |
| 10. /lǎŋ/ | 'later, ones in the future' |

3.2.5. Classifiers

A classifier is any substantive which occurs with weak stress directly before, and in construction with, demonstratives (3.2.4.). Like pronouns (3.2.3.), classifiers also do occur with normal stress; unlike pronouns, they do not by themselves fill all the normal positions of substantives, but are almost entirely restricted to occurrence as complements. (In such cases the normal stress is a morpheme meaning 'one of this item' - see 2.2.3.1.) In the examples below, /sɔɔŋ/ is a classifier meaning 'pack.'

khǎw khǎaj pen-sɔɔŋ .
 'They are sold by the pack (as one pack).'
 aw burii phrá-can , sɔɔŋ .
 'Give me a pack of Moon Cigarettes.'

By far the most common use of classifiers, however, is in enumerations, where the classifier follows numerals (3.2.6) and precedes demonstratives:

/hâa sɔɔŋ/	'five packs'
/sɔɔŋ-nán/	'that pack'
/hâa sɔɔŋ, nán/	'those five packs'

The whole enumeration is often a modifier in a noun expression of which the head noun may or may not have a lexical relationship with the classifier (in this case /burii/ 'cigarette, tobacco' is the head; see 3.2.5.2. below):

/burii hâa sɔɔŋ, nán/
 'those five packs of cigarettes'

Classifiers also serve as first lexemes in classifier phrases - enumerations in which the second constituent is not a demonstrative but some other kind of specifying item, usually a noun, adjective, or ordinal numeral (3.2.6.2.):

/sɔɔŋ sǐi-lǎŋ/	'the yellow pack'	(noun)
/sɔɔŋ-jàj/	'the big pack'	(adjective)
/sɔɔŋ thii-sii/	'the fourth pack'	(ordinal)

Since all such phrases are exocentric, /sɔɔŋ/ by itself cannot substitute for them, but whole classifier phrases are the syntactic equivalent of noun expressions. In other words, classifier phrases can fill all the substantive positions, although classifiers by themselves cannot. Enumerations introduced by numerals (numeral expressions) behave in the same way (see examples in 2.5.2.5.)

The sub-categories of classifiers are determined on the basis of their relationships with other lexeme categories. They are 1) unit classifiers, 2) metric classifiers, 3) general classifiers, and 4) imitative classifiers. Since all the sub-categories except 3) have relatively large memberships, only representative examples are given. (Abstract nouns, 3.2.1.4., which also occur directly after numerals, are not classifiers, since they do not occur with weak stress before demonstratives.)

1) A unit classifier is any classifier which has a special relationship with one or more concrete nouns (3.2.1.1.). For example, if an ST speaker is going to enumerate (i.e. count or specify) members of the class of /rya/ 'boats, ships,' he has little choice but to select the unit classifier /lam/. If he uses a general classifier (3.2.5.3) he is not considering individual boats but kinds of boats. Most unit classifiers are used with a great many concrete nouns of very different meaning, but a few are restricted to a single noun. In the latter case, for example, it is possible to say not only that /chÿag/ is the classifier for /cháaŋ/ 'elephant,' but also that /cháaŋ/ is the noun for /chÿag/.

The sub-category of unit classifiers is quite large, but probably closed. Most dictionaries list up to 200 items as classifiers, of which the great majority are unit classifiers. An attempt is often made to relate classifiers semantically with the nouns they represent, but a far better lexicographical technique, used by Mary R. Haas and others, is to give the unit classifier in parentheses after each concrete noun listed - viz. /rya/ 'boat, ship' (/lam/). The semantic connection between classifier and noun may be buried so deep in history that it makes no sense descriptively - e.g. the classifier for /nǎŋ-sÿy/ 'book' is /lêm/, which is also the classifier for knives and combs (a historical explanation perhaps being that ancient books were long, slender, and sharp-edged).

There are, however, a number of semantically predictable noun-classifier relationships, and even some overt relationships, where the classifier recurs as head of a compound concrete noun.

Examples:

<u>Compound Noun</u>		<u>Classifier</u>
/baj-máaj/	'leaf'	/baj/
/dòog-máaj/	'flower'	/dòog/

/tôn-máaj/	'tree'	/tôn/
/khon-ság-phâa/	'laundress'	/khon/
/ráan-ság-phâa/	'laundry'	/ráan/

Not all such compounds have heads recurring as classifiers, however - the classifier for /kham-thăam/ 'question' is not /kham/ but /khôo/.

Following is a list of the most common unit classifiers for which noun-reference is relatively predictable.

	<u>Classifier</u>	<u>Reference</u>
1.	/khon/	ordinary people
2.	/oŋ/	royal and revered personages, Buddha images
3.	/tua/	non-human things with anthropomorphic characteristics (arms, legs, etc.) - e.g. animals, coats, trousers, tables, chairs
4.	/phêen/	flat things
5.	/baj/	containers
6.	/tôn/	plants
7.	/phÿyn/	strips
8.	/sên/	long tubular objects - e.g. string, wire
9.	/méd/	small round objects
10.	/lûug/	large round objects
11.	/kôon/	irregular lumps
12.	/thêŋ/	sticks
13.	/chabàb/	copies
14.	/khôo/	items, points (of language)

It frequently happens that there is fluctuation in the choice of classifier for a given concrete noun, both from the point of view of the whole speech community and for individual speakers. In such cases, however, no matter which unit classifier is chosen, the meaning is still 'one of the item in question.' For example, the compound noun /phôn-lă máaj/ 'fruit' is classified with /baj/ 'container,' /lûug/ 'large round object,' and /phôn/ (head of the compound).

2) A metric classifier is any classifier which occurs in enumerations that modify predicates, as well as nouns. Metric classifiers do not have special relationships with nouns in the way that unit classifiers do; each

metric classifier occurs with a wide range of heads, both mass nouns and predicatives. The meaning of the sub-category is 'measure by fixed unit or conventional contents of a container.' In the examples below, a metric classifier, /caan/ 'dish (as a measure for food),' is illustrated in a single enumeration which occurs in isolation, as a mass noun modifier, and as a verb modifier.

/sǎam caan: nǐl/	'These three dishes (of food)'
/kɛɛŋ sǎam caan/	'Three dishes of curry'
/kin sǎam caan/	'Eat three dishes (of it).'

The metric classifier /caan/ has a homonym /caan/ which is a concrete noun 'plate, dish' having its own unit classifier /baj/:

/caan sǎam baj/	'Three plates (utensils).'
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The same mass noun can occur with many different metric classifiers, depending on the type of measure used. Examples with /burǐl/ 'cigarettes, tobacco':

/burǐl hâa sooŋ/	'Five packs of cigarettes.'
/burǐl hâa hòo/	'Five cartons of cigarettes.'
/burǐl hâa kiloo/	'Five kilograms of tobacco.'
/burǐl hâa bàad/	'Five-baht cigarettes.'
	or
	'Five baht worth of cigarettes.'

The same /burǐl/ is also a concrete noun 'cigarette' which has a special relationship with the unit classifier /muan/:

/burǐl hâa muan/	'Five cigarettes.'
------------------	--------------------

The sub-category of metric classifiers is not large, but it is open; a fairly recent innovation is /fúđ/ 'foot, feet.' Two examples are given below for each of the broad semantic groups which make up the membership.

- | | |
|-----------------------|--|
| 1. Distance and size: | /méd/ 'metre,' /fúđ/ 'foot.' |
| 2. Weight: | /kiloo/ 'kilogram,' /pooŋ/ 'pound.' |
| 3. Container: | /caan/ 'dish,' /thúaj/ 'cup'. |
| 4. Value: | /bàad/ 'baht, tical,' /rǐan/ 'dollar.' |
| 5. Time: | /moonŋ/ 'hour of the day,' /wan/ 'day' |

The occurrence of value and time classifiers (4,5) after noun heads is relatively rare, except when the head noun means something like 'price, value' or 'time, duration.'

3) A general classifier is any classifier which occurs in enumerations after an extremely wide range of nouns. General classifiers do not have special relationships with either concrete nouns or mass nouns; most of them occur even after abstract nouns, replacing the second occurrence of the noun (see 3.2.1.4.). The class is small and probably closed.

Examples:

	<u>Classifier</u>		<u>Reference</u>
1.	/an/	'piece, item'	All concrete nouns except those referring to people and animals; most abstract nouns
2.	/khûu/	'pair'	Potentially all nouns, but especially personal attributes e.g. eyes, shoes.
3.	/khâaŋ/	'one of a pair'	Same as 2.
4.	/chúđ/	'set, matching group'	Most nouns.
5.	/phûag/	'group'	Nearly all nouns.
6.	/chán/	'class, category'	Nearly all nouns.
7.	/kooŋ/	'disorderly pile'	Most concrete nouns.
8.	/tân/	'stack'	Many concrete nouns.
9.	/jàaŋ/	'type, kind'	Nearly all nouns.
10.	/chaníd/	'type, kind'	Nearly all nouns.
11.	/khráŋ/	'occasion, instance'	Many abstract nouns, especially those with verbal constituents - e.g. 'meeting'
12.	/hèeŋ/ and /thîi/	'place, location'	Potentially all nouns, but especially place-nouns.
13.	/raaj/	'case'	Many abstract nouns.
14.	/thii/	'repeated instance'	Nearly all nouns.

4) An imitative classifier is any classifier for which there is a morphologically related reduplicated lexeme which is an imitative (see 3.1.4.). Most imitative classifiers are of the onomatopoeic variety, and the sub-category meaning is 'instance of a noise, movement, or other sensory impression.' As such, the whole sub-category is not merely a special case of general classifiers, because enumerations with imitative classifiers in them rarely modify nouns (except nouns like /sĩaŋ/ 'sound') but enter into syntactic construction with predicates.

The membership is very large, and also open, since imitatives are frequently innovated, but occurrence of imitative classifiers is actually quite rare in comparison with other types of classifiers.

Example:

fáa lêeb , sǒɔŋ wêeb .

'The lightning flashed twice (there was lightning in two flashes).'

3.2.6. Numerals

A numeral is any substantive which occurs as the first lexeme of a two-lexeme enumeration having a classifier as the second lexeme. The internal construction of compound numeral lexemes is quite complex, but mathematically logical (see 2.2.2.5-6). Because of the compounding possibilities, the class of numerals is theoretically infinite, but the actual numeral morphemes involved are only 24 in number (including the two prosodic morphemes). The syllabic items, all of which also occur as numeral lexemes, are as follows:

1. /nỳŋ/ 'one'	10. /sìb/ 'ten'	17. /lǎaj/ 'several 2-9'
2. /sǒɔŋ/ 'two'	11. /rǒɔj/ 'hundred'	18. /baaŋ/ 'some'
3. /sǎam/ 'three'	12. /phan/ 'thousand'	19. /kìl/ 'how many'
4. /sìl/ 'four'	13. /mỳyn/ 'ten thousand'	20. /mâj-kìl/ 'not many'
5. /hâa/ 'five'	14. /sěen/ 'hundred thousand'	21. /nǒɔj/ 'few'
6. /hòg/ 'six'	15. /láan/ 'million'	22. /thúg/ 'each, every'
7. /cèd/ 'seven'	16. /khrỳŋ/ 'half'	
8. /pèed/ 'eight'		
9. /kâw/ 'nine'		

Items 17-22 are not true substantives, since they have suppletive forms in isolation (see 3.2.6.3.), but qualify as numerals otherwise. Morphemes 17-19 also enter into compound lexeme constructions with other numeral morphemes; items 20-22 do not. Item 20. is two morphemes, the remainder are single morphemes.

Construction of compound numeral lexemes from morphemes 1-19, plus the prosodic morphemes /-/ 'multiply' and / / 'add,' is almost entirely regular. The morpheme 1. /nỳŋ/ has an allomorph /èd/ after 10. /sìb/ in additions, and the morpheme 2. /sǒɔŋ/ has an allomorph /jìl/ before 10. /sìb/ in that particular multiplication.

Morphemes 1-9 and 16-19 occur in multiplications only as the first constituent; morphemes 1. and 16. only before 11-15 as second constituent, the others before 10-15. Morphemes 10-15, besides occurring as second constituents, also occur as first constituents in multiplications, but only when 15. /láan/ is the second constituent.

Addition constructions take effect only after all multiplication is complete. In additions, morpheme 16. /khrÿŋ/ 'and a half' follows all other morphemes and multiplied constituents; it never leads an addition construction. Morphemes 1-9 precede only 16. and follow all other morphemes and multiplied constituents. Morphemes 10-14 and their multiplications precede 1-9 and 16 in addition processes, and follow only a higher-ranking member of their own set or its multiplication (e.g. 14. /sĕen/ occurs only after 15. /láan/, but 10. /sìb/ after any of the group 11-15, etc.). Morpheme 15. and its multiplications are always first constituent in an addition construction. Morphemes 17-19 do not occur in addition constructions.

Examples of internal construction of compound numeral lexemes.

<u>Multiplication</u>		<u>Addition</u>			
săam-sìb	'30'	sìb sĂam	'13'	sĂam-sìb sĂam	'33'
jĭi-sìb	'20'	sìb sĕoŋ	'12'	jĭi-sìb sĕoŋ	'22'
hĂa-sìb	'50'	sìb hĂa	'15'	hĂa-sìb ěd	'51'
sĭi-rĕoŋ	'400'	rĕoŋ sĭi	'104'	sĭi-rĕoŋ sĭi-sìb	'440'
hòg-phan	'600'	phan hòg-rĕoŋ	'1,600'	hòg-phan kĂw-rĕoŋ	'6,900'
lĂaŋ-phan	'thousands of, several thousand'				
cěd-mÿyn	'70,000'			mÿyn cěd-phan	'17,000'
kĭi-sĕen	'how many hundred thousand'				
nÿŋ-lĂan	'one million'			kĂw khrÿŋ	'9 1/2'
sĕoŋ-lĂan sĂam-sĕen sĭi-mÿyn hĂa-phan hòg-rĕoŋ cěd-sìb pěed khrÿŋ	'2,345, 678 1/2'				

Additions in which the first constituent is one of morphemes 11-15 or its multiplication, and the second constituent is one of morphemes 3-9 or morpheme 16, can be ambiguous, because there is a second pattern whereby morphemes 3-9 and 16 can stand for the multiple of the next lower order. The ambiguity recedes as the number of zeros involved increases, and the alternate pattern takes over.

Examples: sĕoŋ-rĕoŋ hĂa '205,' or '250' if /hĂa/ equals /hĂa-sìb/.
 pěed-phan hòg '8006,' or '8600' if /hòg/ stands for /hòg-rĕoŋ/.

láan khrÿŋ 'a million and half' (almost certainly 1,500,000)
 mÿyn cèd 'ten thousand seven' (almost certainly 17,000)

Numerals higher in value than /láan/ 'million' exist, but are not yet in general use, and may not in fact satisfy the definition of 'numeral' if they become acceptable. The lexeme /sũun/ 'zero' is not a numeral, but is used in construction with numerals (for example, in giving telephone numbers), as are other numeral substitutes.

Morphemes 1-3 have allomorphs with different tones in a special lexeme of the isolative class used in serial counting (as when starting a race):

nÿŋ , sòoŋ , !sâam † . 'One, two, three!'

Numeral lexemes, both simple and compound, are sub-classified on the basis of their behavior with respect to classifiers. All numeral lexemes of course occur before classifiers, but some also occur after classifiers and in isolation. Because variant forms of lexemes are involved, there is some overlapping of the sub-categories.

1) Cardinal numerals occur in isolation. The meaning is the same as it is before classifiers: 'number of items.' Cardinal numerals include the simple lexemes represented by morphemes 1-15, and all the compound lexemes represented by their multiplications and additions, except those involving morphemes 17-19. Thus the membership of the sub-category approaches that of numerals in general.

2) Ordinal numerals occur immediately after classifiers and in construction with them. The meaning of the sub-category is 'position in a series.'

/săam chán/ 'Three classes' (cardinal)
 /chán săam/ 'The third class' (ordinal)

The membership of the sub-category is exactly the same as that of cardinal numerals, except that each ordinal numeral, whether it is simple or compound, has a derivative allomorph beginning with the prefix /thîi-/ 'ordinal number.' (Numerals containing the morpheme 16. /khrÿŋ/ 'half' are marginal members of the category.) Whereas cardinal phrases (numeral plus classifier) are exocentric, ordinal expressions (classifier plus numeral) are endocentric. Examples:

chán săam 'third class'
 chán thîi-săam 'third class'
 p11 sòoŋ-phan hâa-róoŋ hòg 'the year 2506'
 khon thîi-sib-èd 'the eleventh person'

* From private conversation with Miss Kanda Sitachitta, 1963.

hôn sǎam-sìb kâw	'room 39'
wan thîi-pèed	'the eighth (day of the month)'
thîaw thîi-hòg	'the sixth race'

Besides occurring after classifiers, ordinal numerals also serve as modifiers of nouns, in a similar construction:

nâa sîi-róoj sîb cèd	'page 417'
thanǒn thîi sîi-sìb sǒoj	'42nd street'

3) Partitive numerals occur only in the cardinal position, never in isolation or in ordinal constructions. The sub-category includes items 17-22 plus the multiplications of 17-19, and a set of derivatives ending in /kwa/ (see end of section). The meaning is 'proportional, approximate or unknown number of items.'

Examples:

baaŋ khon	' <u>some</u> people (not all)'
kìi chán	'how many classes?'
lǎaj-sìb tûu	'tens of cabinets'
lǎaj tua	'several (animals)'
kìi-róoj bàad	'how many hundred baht?'
mâj-kìi wan	'not many days'
nóoj khon	'few people'
thúg chaníd	'every kind'
hòg-sìb kwabàad	'sixty-odd baht'

Partitive numerals are actually a bound lexeme class, since they do not occur in isolation, but are included here because of their relationship with substantive numerals. Their suppletive isolation-forms are, syntactically speaking, members of the /eeŋ/ class of complementives (3.2.2.2.) which serve as numeral substitutes. They are listed below (rather than with the /eeŋ/ class) to point up their special relationship with partitive numerals.

<u>Partitive Numeral</u>		<u>/eeŋ/ -class Complementive</u>	
/lǎaj/	'several, two to nine'	/mǎg-mâag/	'quite a few'
		/thǎŋ-lǎaj/	'the several'
/baaŋ/	'some, part of'	/bâaŋ/	'some'
/kìi/	'how many'	/thâw-raj/	'how much'
		/kìi-manóoj/	'how many'

/mâj-kìl/	'not many'	/mǎj-thâw-raj/	'not much, not many'
/nóoj/	'few'	/lég-nóoj/	'a few'
/thúg/	'each, every'	/thǎŋ-nán/	'all of them'

Both the partitive numerals and their related /eeŋ/-class complementives frequently occur after /sǎg/-class prepositions (4.2.5.), and further examples of their use are given under the heading of /b^aŋ/-class postpositions (4.4.3.)

A special set of partitives is made from cardinal numerals by derivation with a suffix /kwa/, which attaches itself (unstressed and with minimum syllable duration) to the classifier which follows. The derivatives are made from any simple cardinal numeral lexeme or any multiplication, but not from additions. The meaning of each derivative is 'that number plus a fraction' (for simple lexemes) or 'that number plus an odd remainder of integers of the next lower order' (for multiplications). In other words, the suffix /kwa/ 'plus' operates in exactly the same way as the morpheme /khrÿŋ/ 'and a half' operates in additions, but the meaning is less precise.

Examples:

cèd kwabàad	'Seven baht and a fraction'
sìl-róoj kwamaj	'Four-hundred-odd miles'
sìb kwachán	'More than ten classes'

The corresponding inexact cardinal numerals, however, are not derivatives but syntactic constructions, cardinal numeral plus postposition /kwakwàa/. (The difference is that a classifier can intervene between the numeral and the postposition.)

Examples:

cèd: kwakwàa	'Seven and a fraction.'
sìl-róoj: kwakwàa	'Four hundred plus.'
sìb: kwakwàa	'In the teens'
cèd bàad: kwakwàa	'Over seven baht.'
sìl-róoj maj: kwakwàa	'More than 400 miles.'

4) Classifier numerals occur before, and in direct construction with, demonstratives (3.2.4.). The numerals which fill this position are not classifiers, however, because they have normal stress (see definition of classifiers, 3.2.5.). The usual pattern is for the stressed numeral to have medium-long duration, with the demonstrative which follows having weak stress. The most common demonstrative occurring in this construction is /iŋ/ 'a, one,' but others are found as well.

The membership of the sub-category of classifier numerals is confined to the simple lexemes 11-16 (middle column of chart at beginning of 3.2.6.).

Examples:

róoɔj: nyŋ	'a hundred'
phan: nán	'that thousand'
mỳyn sùd-tháaɔ	'the last ten thousand'
sěen: nyŋ	'a hundred thousand'
láan rêεg	'the first million'
khíyŋ: nyŋ	'a half'

3.3. Predicatives

A predicative is any free lexeme which occurs as a predicator (in a non-equational predication, see 2.5.2.2.). Any lexeme which qualifies as a predicative is no longer considered to be a substantive, since the more specific classification is that of predicative (see statement in first paragraph of 3.2.). Besides occurring as predicators and heads of endocentric predicates, many members of this class also fill the typical positions of substantives: topics, subjects, objects and complements.

Predicatives are classified, on the basis of typical and absolute occurrence, into four sub-groups: 1) Modal Verbs, 2) Adjectives, 3) Transitive Verbs and 4) Completive Verbs. The third sub-group is also referred to simply as 'verbs.'

3.3.1. Modal Verbs

A modal verb is any predicative which occurs as the predicator, or as head of an endocentric predicate, with an object which is also a predicative or predicative expression. The test of predicate substitution is made in the context of a yes-no question and its answer.

Examples:

Q.	khăw tōŋ paɔ: mǎɔ .	'Does he have to go?'
A.	tōŋ .	'Yes, he does.'
<u>or</u>	A. mǎɔ tōŋ .	'No, he doesn't.'

Since /pǎɔ/ 'go' is itself a predicative, /tōŋ/ 'must' is a modal verb. One kind of modal verb (sub-class 1) below) is restricted to occurrence in this type of construction, but there are other modal verbs (sub-class 2) below) which also take substantive objects.

Examples:

- Q. khãw chôob wîŋ: mǎj . 'Does he like to run?'
A. chôob . 'Yes, he does.'
Q. khãw chôob sǐi-dɛɛŋ: mǎj . 'Does she like red?'
A. chôob . 'Yes, she does.'

Since /wîŋ/ 'run' is a predicative, and /sǐi-dɛɛŋ/ 'red' is a substantive, the modal verb /chôob/ 'to like' occurs before both types of object.

A feature of one sub-class, specific modal verbs (below) is that they act as predicators in any kind of predication in which they occur, no matter what the membership of the other constituents may be. For example, even in a predicate consisting of a modal verb and an adjective (3.3.2.), the modal verb substitutes for the whole.

Example:

- Q. tôŋ dii: mǎj . 'Must it be good?'
A. tôŋ . 'Yes, it must.'

The class of modal verbs is not very large, as free lexeme classes go, but except for sub-category (1) below, it is probably open. The class meaning is 'mode of action, or specific applicability of situation described.' Modal verbs are paralleled by a class of bound lexemes, called simply 'modals,' which fill the same position in predications but do not substitute for them (4.1.). They are also paralleled in the same way by a sub-class of adjectives (3.3.2.3.) which fill the modal verb position but do not substitute.

Some true modal verbs have homonyms belonging to other classes. For example, /âad/ is a modal verb meaning 'capable of' and also a modal meaning 'apt to.' In the first case, the negative precedes /âad/; in the second case it follows:

- mâj-âad capaŋ 'Unable to go'
âad camâj-paŋ 'Might not go.'

Two sub-classes of modal verbs are established, on the basis of type of object occurring in their predications.

- 1) Specific modal verbs occur only with objects which are themselves predicatives. The class is small and closed, probably being confined to the following members.

1. /khœej/ 'to have experienced, to have done at least once;
ever, used to'

Occurs before verbs and verb expressions, and before other modal verbs.

khun khəej looŋ ráb-prathaan aahǎan thaɰ: rỹ-jaŋ .
'Have you ever tried eating Thai food?'

khəej . 'Yes.' mǎj khəej . 'No.'

khǎw khəej jaag pen thahǎan-rya .
'He once wanted to be a sailor.'

2. /rúu-càg/ 'to have been; ever, used to be'

Occurs before adjectives and adjective expressions.

phǎm lén kób , mǎj-rúu-càg bya .

'I never get bored with playing golf.'

3. /tôn/ 'must, is obliged to, has to'

Occurs before all types of predicatives, including other modal verbs.

khun mǎj-tôn paɰ: rǔg † .

'You don't have to go!'

tôn rew: mǎj .

'Must it be soon?'

naɰ thii-sùd , khǎw kô-tôn joom phée .

'In the end they had to admit defeat.'

4. /joom/ 'be willing to, allow oneself to; accept'

Occurs mainly before verbs (but may follow other modal verbs - see last example above).

mɛw , man mǎj-joom kin: sǎ sàg-níd .

'The cat won't eat a bit of it.'

phǎm joom-ráb waa dii .

'I'm willing to admit that it's good.'

5. /jàag/ 'to want to, to wish for'

Occurs mainly before verbs (but may follow other modal verbs - see last example under 1. /khəej/.)

khun jaag capaɰ dũaɰ: mǎj .

'Do you want to go too?'

khǎw mǎj-jàag carób-kuan khun .

'He doesn't want to bother you.'

6. /samàg/ and /samàg-caj/ 'to volunteer, offer ones services.'
 Occurs mainly before verbs, but may follow other modal verbs.
 khǎw samàg capen thahǎan: rǎy .
 'Did he volunteer for military service?'
 phǒm khǒo samàg pen samaa-chíg .
 'I would like to make application to be a member.'
7. /khuan/ 'should, ought to; properly does'
 Occurs before verbs, adjectives, and other modals.
 khun mâj-khuan caphûud jarǎn .
 'You shouldn't talk like that.'
 man khuan cadii kwa-nii .
 'It ought to be better than this.'
 khǎw khuan cajoom-phée .
 'He should be willing to accept defeat.'
- (/khuan/ has a derivative /sǒm-khuan/, an adjective meaning
 'fitting, proper.')
8. /àad/ and /sǎa-mâad/ 'to be capable of'
 Occurs mainly before verbs.
 phǒm mâj-àad catôo-thǎaŋ: leeŋ .
 'I can't argue about it at all.'
 khǎw mâj-sǎamâad catôo-sûu, tòo-paj-iŋg .
 'He was incapable of fighting any further.'
9. /phajajaam/ 'to try, make a physical effort'
 Occurs mainly before verbs.
 khǎw phajajaam catôo-sûu: mǎan-kan .
 'He was trying to fight, anyway.'

Modal verbs 1-4 normally precede their predicator-objects directly, without the interposition of the particle /ca-/ 'hypothetical predicate.'
 Modal verbs 5-9 occur either with or without /ca-/, more often with it (as in the examples above).

2) General modal verbs occur with both predicative and substantive objects. The class is much larger than that of specific modal verbs, and is almost certainly open. One or two instances of each general semantic category of these modal verbs is given for illustrative purposes.

- | | |
|--|-------------------|
| 1. Verbs meaning 'to like' | /chôob/, /rág/ |
| 2. 'to hate, to mind, to object' | /raŋ-kìad/ |
| 3. 'to think, to plan' | /khíd/, /rí/ |
| 4. 'to hurry' | /rîlb/ |
| 5. 'to begin, to start' | /rêem/, /tâŋ-tôn/ |
| 6. 'to stop, to end' | /lêeg/, /jùd/ |
| 7. 'to try out, to experiment with' | /looŋ/ |
| 8. 'to help' | /chûaj/ |
| 9. 'to ask a favor, to beg' | /khǒo/, /waan/ |
| 10. 'to depend on someone else' | /fâag/, /aasǎj/ |
| 11. 'to invite' | /chœen/, /nīmon/ |
| 12. 'to accept' | /ráb/, /dâj-ráb/ |
| 13. Many verbs describing the act of speaking- | /bòog/, /tyan/ |
| 14. All completive verbs (see 3.3.4.) | |

As a class, general modal verbs usually precede specific modal verbs when they occur in the same construction (see /khǒo/ in last example under /samàg/, above) and they are almost never immediately followed by the particle /ca-/, except sub-categories 3. and 5.

3.3.2. Adjectives

An adjective is any predicative which occurs as a predicator with a subject which also a predicative or predicative expression. (Thus adjectives are, so to speak, the direct opposites of modal verbs.) The test of substitution, as before, is made in the context of a yes-no question and its answer.

Example:

Q. khun paj wád bòj: mǎj .
 'Do you go to the temple often?'

A. bòj . 'Yes, often.'

or

A. mǎj bòj . 'No, not often.'

Since /paj/ 'go' is a predicative, heading a predicative expression /paj wád/, then /bòj/ 'often' is an adjective. One kind of adjective typically occurs in this kind of construction, but there are other adjectives which also take substantive subjects. (Hence the sub-classification of adjectives in this respect parallels that of modal verbs.)

- Q. khun paj wád sanùg: mǎj .
 'Did you have fun going to the temple?'
 (lit. 'Was your going to the temple fun?')
- A. sanùg .
 'Yes, it was fun.'
- Q. ɲaan-níi sanùg: mǎj .
 'Is this fair any fun?'
- A. mǎj sanùg .
 'No, it's no fun.'

Since /paj wád/ is a predicative expression, and /ɲaan/ 'fair' is a substantive, the adjective /sanùg/ 'fun' occurs after both types of subject.

Adjectives do not 'have objects' in the way that other predicatives do; they are, in a sense, intransitive verbs. There exist, however, adjective expressions, in which one adjective is modified by another.

Example:

/dɪɪ mǎag/ 'Very good.'

Both /dɪɪ/ and /mǎag/ are adjectives. Another common type of adjective expression has one of a special class of bound modifiers as the second constituent (see 4.4.2.).

Examples:

/dɪɪ kwàa/ 'Better.'

/sanùg: thɪɪɪaw/ 'Quite amusing.'

Other endocentric constructions (for example an adjective plus a substantive) which appear at first glance to be adjective expressions are usually best analyzed as single lexemes.

Example:

/kèɛ/ 'old, dark' (adjective)

/faj/ 'fire' (noun)

/kèɛ-faj/ 'dark from the fire; overcooked'

The combination is a compound adjective lexeme.

One kind of adjective, (sub-class 3) below) does occur, however, in the modal position. The construction is exocentric, because such adjectives do not substitute for the entire predication in the way that true modal verbs do.

Besides filling the predicator position, adjectives of sub-classes 2) and 3) frequently serve as modifiers of substantive and predicative expressions. In substantive expressions the head is usually a noun or a classifier; in predicative expressions, it is a verb, a completive verb, or another adjective.

Examples:

Noun Head:	/bâan jàj/	'a big house, big houses'
Classifier Head:	/lǎŋ jàj/	'the big one (speaking of houses)'
Verb Head:	/wîŋ rew/	'run fast' (in a context
such as	/wîŋ rew mâj-dâj/	'Cannot run fast')
Completive Verb Head:	/dâj rew/	'successfully fast' (in a context
such as	/wîŋ mâj-dâj rew/	'Was unable to run fast enough')
Adjective Head:	/rew mâag/	'very fast'

Adjectives of sub-class 1) do not normally occur as modifiers.

A feature of the entire class of adjectives is that they act as predicators in every kind of two-part predication except those introduced by modal verbs. In other words, in a construction consisting of ordinary verb plus adjective, it is always the adjective rather than the verb which substitutes for the whole.

A morphological characteristic of adjectives is that nearly all lexemes belonging to this class have simple reduplications (2.4.3.1.). These adjective derivatives cannot fill the predicator position, however.

Example:

/bòj/	'often'	/bòj-bòj/	'often'
/mâj-bòj/	'not often'	/bòj: mãj/	'often?'

(Forms like */mâj bòj-bòj/ and /bòj-bòj: mãj/ do not exist.)

Some adjectives also reduplicate in other ways: /sanùg/ 'fun' /sanùg-sanùg/ 'fun' /sanùg-sanãan/ 'be amused' (a general adjective like /sanùg/ itself - for reduplication type, see 2.4.3.9.).

The class of adjectives is extremely large, and, except perhaps for sub-class 1), open. By far the largest number of adjectives belong to sub-class 2) 'general adjectives.' The total number of adjective lexemes is still smaller than that of nouns or transitive verbs, however. Examples of the three sub-classes follow.

3) Specific adjectives typically occur with subjects which are predicators, predicates, and predicative expressions, and are rarely found with substantive subjects and as substantive modifiers. The sub-class is small and probably closed; its meaning is 'manner, timing, or frequency of action.'

Reduplicated lexemes from specific adjective bases almost invariably belong to the /eeu/ class of complementives (3.2.2.2.). Specific adjectives

themselves frequently occur at the ends of clauses in the complementive position (cut off from the main predication by special bound lexemes or by rhythmic patterns), and in other non-predicative constructions. (The term 'adverb' refers to a member of some other form-class, such as specific adjectives, occurring in a typical complementive construction. 'Adverbs' are not a free lexeme class in their own right.)

The principal members of the sub-class are illustrated with reference to a single frame:

/khãw tham-n̄aan: sã.../

'He works (or worked)... '

1. /r̄yãj/ 'continuously'
(Sentence: 'He keeps on working.')
2. /saměe/ 'always'
3. /bòj/ 'often'
4. /jêe/ 'with unbearable difficulty'
5. /phlœn/ 'with pleasurable absorption'
(Sentence: 'He was absorbed in his work.')
6. /jũŋ/ 'busily, with unpleasant absorption'
(Sentence: 'He was busy working.')
7. /b̄yã/ 'boringly'
(Sentence: 'He was bored with the work.')
8. /ciŋ/ 'really'
9. /kòon/ 'previously'
10. /léew/ 'already'
(Sentence: 'He has done the work.')

In most respects, members of the class behave exactly like other adjectives. Following are some example of specific adjectives negated, modified, and reduplicated:

phõm khœj paj-thiaw thi-n̄an , m̄ãj-bòj: n̄ãg .

'I haven't been to visit the place very often.'

khun t̄oŋ prakhób khěen: r̄yãj paj .

'You have to keep on soaking your arm.'

phõm hãa thi-còod: sã , thêb jêe .

'It was almost impossible to find a parking place.'

phũud kakhãw , naan chág-cab̄yã .

'I talked with him so long it was starting to be a bore.'

khuj kakhǎw jùu-phlœn: thidiaw .

'I was quite absorbed in talking with him.'

lûug-kratàaj náb-wan-tèe catoo khÿn: rÿaj-rÿaj .

'In no time the baby rabbits will start getting bigger and bigger.'

khǎw tham hâj léew-léew: paj , thâw-nán .

'He did it just so as to get it over with.'

Internal order of the class is apparently 1-8, 9, 10, but examples of two specific adjectives in the same clause are hard to find, except for those involving 10. /léew/ as second member:

phôm tìd thurá jûn: léew
6 10

'I'm already tied up in all kinds of business.'

mii khon nân jùu-kòon: léew
9 10

'There had been somebody sitting there previously.'

2) General adjectives occur in all the positions of specific adjectives, but also have substantives and substantive expressions as subjects, and occur as modifiers of nouns and classifiers (see examples at beginning of 3.3.2.). This subdivision is by far the largest in the class of adjectives, and the membership is open. Semantic categories covered are too numerous to permit any meaningful breakdown, but in general the sub-class correlates well with form-classes such as 'adjective' and 'intransitive verb' in other languages.

Examples:

aahǎan mâj-aròoj .

or

'The food is not good.'

'Tasteless food.'

caan tèeg .

or

'The dishes broke.'

'Broken dishes.'

caan jàj-jàj .

'The larger dishes.'

Reduplicated forms of general adjectives (see last example) occur as modifiers and as complements.

3) Modal adjectives are general adjectives which introduce exocentric predicative phrases, occurring in the modal position (instead of the usual adjective position toward the end of the predicate.) The sub-class is small but probably open. The meaning is 'general personal characteristic applied to a given situation.' Members include many derivatives ending in the suffix

/-caj/ (2.4.1.9.) or beginning with the prefixes /khîi-/ (2.4.1.4.) and /nâa-/ (2.4.1.3.). The predicate is nearly always introduced by /ca-/.
 Examples:

phǒm jin-dii .	'I'm glad.'
phǒm jin-dii catham hâj .	'I'll be glad to do it for you.'
jaŋ mâj phoo-caj .	'Still not satisfied.'
jaŋ mâj phoo-caj cadâj-ráb .	'Still not satisfied (willing) to receive it.'
khon khîi-kiad .	'A lazy person.'
khǎw khîi-kiad capaj .	'He's (too) lazy to go.'
nâa-klua capaj mâj-than .	'(I'm) afraid of not getting there in time.'

3.3.3. Transitive Verbs

A transitive verb is any predicative, other than a modal verb (3.3.1.) or completive verb (3.3.4.), which occurs as predicator in predicates that have substantive objects. (The term 'verb' is used to apply to all three classes of verb, which share the feature of 'having objects,' as opposed to adjectives, which do not 'have objects,' but is also used to apply to transitive verbs, the central and most numerous class of predicatives.) Like all predicatives, transitive verbs occur in predications which have substantive subjects, and also occur, like adjectives, in endocentric expressions headed by nouns and classifiers. Examples involving transitive verb /lÿag/ 'to choose, pick out':

khǎw lÿag phâa sǐi-araŋ .	'What color cloth did she choose?'
phâa níi lÿag jâag.	'This cloth is hard to choose from.' (lit. 'chooses hard.')
khǎw-eeŋ pen khon-lÿag .	'She herself is the one who chose it.'

All transitive verbs occur both with and without objects, and both with and without subjects. The meaning of the verb-object construction is that the referent of the object is the goal of the action designated by the verb. The meaning of the subject-verb-object construction is that the referent of the subject is the actor initiating action toward that goal. But the meaning of the subject-verb construction by itself is ambiguous - the subject may refer either to the actor or the goal (as it does with many English verbs- cf. 'This bread slices well' and 'This knife slices well.')

The meaning of the topic-subject-verb construction is that the referent of the topic is the goal and the subject designates the actor, or that both topic and subject refer to the actor. The meaning of the verb-object-indirect object (or verb-object-complement) construction is that the object represents the goal and the referent of the indirect object or complement may be either actor or secondary goal. Examples of these constructions follow, the transitive verb always being /pìd/ 'to close.' (Symbols used in the formulae are 'T' for topic, 'S' for subject, 'V' for transitive verbs, 'O' for object, and 'C' for indirect object or complement.)

VO:	pìd pratuu .	'Shut the door.'
SVO:	khǎw pìd pratuu .	'He shut the door.'
SV:	khǎw pìd .	'He shut (it).'
SV:	pratuu pìd .	'The door is shut.'
TSV(C):	pratuu , khǎw pìd: mòd .	'He shut all the doors.' (Lit: 'The doors, he shut 'em all.')
VOC:	pìd pratuu ród .	'Shut the car doors.' (Lit. 'Perform door-shutting operation on car.' -cf. /sàj kuncɛɛ ród/ 'lock the car.')
VOC:	pìd pratuu: kan .	'You (plural) shut the door.' (/kan/ refers to the actor, not the goal.)
TSVOC(C)	nág-rían, khǎw pìd pratuu , kan mòd .	'The students, (they) shut all the doors.'

The difficulty in interpreting transitive-verb predications is often not so much one of ST structure as it is of English translation. For example, /mɪɪ/ is a typical transitive verb, but constructions like 'S /mɪɪ/' have to be translated 'S exists, there is S' while constructions like '/mɪɪ/ O' must be translated 'someone has O.' The construction 'S /mɪɪ/ O,' on the other hand always means 'S has O.'

The ambiguity of the construction SV (actor-action or goal-action) can be avoided by the placement of special functional words with passive meaning between S and V. There are a few common lexemes (members of the class of completive verbs, 3.3.4.) that have this effect: /thùug/ 'suffer (a bad action)' and /dâj/ or /dâj-ráb/ 'receive the benefit of (a good action).'

Examples:

khǎw thùug tɪɪ .	'He was beaten.'
phôm dâj-ráb cheən .	'I was invited.'

The class of transitive verbs is very large (probably second only to the class of nouns) and is open. Sub-classification could possibly be made on an intricate structural basis, and certainly by semantic criteria, but is not attempted here. There is one group of transitive verbs, however, which are distinguished from the others by the covert lexical relationship which they have with certain specific completive verbs (see examples in next section).

3.3.4. Completive Verbs

A completive verb is any predicative which occurs both as a predicator with a substantive object and as a predicator with a predicative subject. Thus completive verbs satisfy the definitions of both adjectives (3.3.2.) and transitive verbs (3.3.3.), and are commonly found in typical constructions of both types, sometimes simultaneously. Examples with the completive verb /than/ 'to catch up, be in time,' contrasted with a transitive verb and an adjective:

than ród-faj .	'Caught the train.'
nâŋ ród-faj .	'Rode the train.'
(/nâŋ/ is a transitive verb meaning 'sit')	
maa than .	'Came in time.'
maa cháa .	'Came late.'
(/cháa/ is an adjective meaning 'slow')	
maa than ród-faj .	'Came in time to catch the train.'

The class of completive verbs, besides filling all the positions of verbs and adjectives, has another important function. Its members commonly occur with whole predications (including a subject, but rarely a topic) as their objects. The same thing is true of those transitive verbs which have lexical relationships with completive verbs. In the examples below two pairs of such verbs (transitive and completive) are illustrated, first together in the definitive context, and then separately with an identical predication as the object of each.

moŋ araj mâj-hěŋ .	'Can't see anything.'
	(lit: 'look at something not-see-it.')
faj araj mâj-dâj-jin .	'Can't hear anything.'
	(Lit. 'listen to something not-hear-it.')
moŋ khăw-lên don-trii .	'Watched them play music.'
hěŋ khăw-lên don-trii .	'Saw them playing music.'

faŋ khăw-lên don-trii . 'Listened to them play music.'
 dâj-jin khăw-lên don-trii . 'Heard them playing music.'

Three completive verbs have already been mentioned (3.3.3. end) as having a special passive meaning when they occur directly before transitive verbs. These same items can also have entire predications as their objects, in which case the subject of the predication remains the actor. Example:

chăn thùg man-tii aw rɛɛŋ-rɛɛŋ . 'I was hit hard by it.'

Completive verbs in the adjective position can be followed only by other adjectives, which then become the predicator:

Q. mɔɔŋ hěn chád: mǎj . 'Can you see it clearly?'
 A. chád . 'Yes, clearly.'

A common feature of all completive verbs is that when they occur in a syntactically ambiguous context (such as a response in which the completive verb stands for an entire predicate or predication), the form of negation clearly shows whether they are playing the role of adjective or transitive verb. Examples with the completive verb /ùn/ 'warm':

Q. khrŷaŋ ùn léɛw: rŷ-jaj . 'Is the engine warm yet?'
 Y. ùn léɛw . 'Yes, it is.'
 N. jaj mǎj-ùn . 'No, it's not.'
 Q. ùn khrŷaŋ léɛw : rŷ-jaj . 'Have you warmed up the engine yet?'
 Y. ùn léɛw . 'Yes, I have.'
 N. jaj mǎj-dâj ùn . 'No, I haven't.'

The negative /mǎj/ is characteristic of adjective predicates, and /mǎj-dâj/ of transitive verb predicates.

The class of completive verbs is relatively small, but not closed, since any adjective or transitive verb is a potential candidate for membership. The class meaning is 'successful completion of attempted action,' and the class meaning of the transitive verbs occurring in the same predicate with them is 'attempted action.' In such predicates, the negative precedes the completive verb, but other pre-verbal modifiers (e.g. modals) precede the transitive verb. Example:

phǒm jaj mɔɔŋ araj mǎj-hěn. 'I still can't see anything.'

Sub-classification of completive verbs parallels that of classifiers (3.2.5.), but there are only two groups, and these two are not mutually exclusive.

- 1) General completive verbs occur as predicators after a wide range of transitive verbs. The principal members of the sub-class are the following (some of which recur as specific completive verbs, 3.3.4.2.)
1. /dâj/ 'to be able, possible; to succeed.'
 paj dâj : mãj . 'Can one go?'
 kin dâj : mãj . 'Can it be eaten?'
 tham dâj ñâaj . 'It can be done easily.'
 2. /pen/ 'to know how to, to do from habit.'
 tham mãj-pen . '(I) don't know how to.'
 sùub pen : mãj . 'Do you smoke?'
 3. /wǎj/ 'to be physically capable of'
 tham mãj-wǎj . '(I) can't possibly do it.'
 kin mãj-wǎj , phèd : kəən-
 paj . '(I) can't eat it - it's too peppery.'
 4. /rôod/ 'to accomplish safely or freely'
 paj mãj-rôod . '(We) won't make it (not safe to go).'
 sùub rôod : mãj 'Is it safe to smoke it'
 5. /talòod/ 'to follow through all the way'
 kwàad hâj-talòod : nǎ . 'Sweep it all the way through,
 will you?'
 phǒm jaŋ hǎa-duu mãj-talòod . 'I still haven't searched all the
 way through it.'
 6. /thûa/ and /thûa-thỷŋ/ 'to cover an entire area, accomplish
 thoroughly'
 kwàad hâj-thûa : nǎ . 'Sweep all over, will you?'
 khǎw duu-lɛɛ mãj-thûa-thỷŋ . 'He didn't supervise it thoroughly.'
 7. /thỷŋ/ 'to reach, go far enough'
 yam myy thỷŋ : mãj . 'Can you reach it (with your hand)?'
 nâa-klua capaj mãj-thỷŋ . 'Afraid we won't get that far.'
 jìb mãj-thỷŋ . 'Can't reach it.'

8. /than/ 'to be in time, reach soon enough'
 nâa-klua capaj mâj-than . 'Afraid we won't get there in time.'
 klàb bâan than : mǎj . 'Will we get home in time?'
9. /khrób/ 'to succeed in filling up a set,
 to complete'
 sýy nǎŋ-sýy hâj-khrób 'Buy the rest of the books, will
 chúđ : nǎ . you?'
 jaŋ hǎa mâj-khrób . 'Still haven't found all of them.'
10. /mòđ/ 'to use up, exhaust a set'
 jaŋ cháaj mâj-mòđ . 'Still haven't used them up.'
11. /sèđ/ 'to finish, accomplish a temporary
 or indefinite task'
 phǒm rian nǎŋ-sýy sèđ léew . 'I'm finished studying (for now).'
 jaŋ tham ŋaan mâj-sèđ . 'Not finished working.'
12. /còb/ 'to finish, accomplish a prescribed
 task with definite limits'
 phǒm rian nǎŋ-sýy còb léew . 'I've finished my studies
 (graduated).'
 khǎw rócŋ-phleeŋ còb léew . 'They've finished singing the song.'
But khǎw rócŋ-phleeŋ sèđ léew . 'They're finished singing songs.'

- 2) Specific completive verbs occur as predicators after certain transitive verbs or groups of transitive verbs with which they have a covert relationship. The sub-class meaning is 'to be able to,' and this is a possible English translation for nearly all instances of specific completive verbs. The relationship between a verb and its completive verb is therefore very similar to that between a concrete noun (3.2.1.1.) and its unit classifier (3.2.5.1.). Whereas the unit classifier always means 'one instance of the particular class of things denoted by the noun,' the specific completive verb always means 'one instance of achievement of the attempted action denoted by the verb.' Verbal actions not predicated with completive verbs (specific or general) are no more finite than are concrete nouns without their classifiers.

Examples of the most important members of this sub-class are given below, along with some of the transitive verbs they are used with. For each transitive verb given, at least two constructions with its completive verb (appearing in the heading) are possible - one meaning 'able to V' and the other 'unable to V,' with /mâj/ coming between the two constituents in the latter case. For example, under item 1., the first two such constructions would be as follows:

sàj khâw 'can put in, able to be put in (will go in)'
 sàj mâj-khâw 'cannot put in, unable to be put in (won't go in).'

1. /khâw/ 'to enter' Used after:

/sàj/	'to put in'	/pìd/	'to close (door, etc.)'
/cò/	'to drill'	/klyyn/	'to swallow'
/jád/	'to stuff'	/pèed/	'to open (door, etc.)'

2. /còg/ 'to emerge' Used after:

/thóon/	'to withdraw'	/thòod/	'to take off'
/pèed/	'to open (door, etc.)'	/dyŋ/	'to pull'
/kâaw/	'to advance'		

and nearly all verbs of speaking, thinking, using the vocal apparatus and dealing with language:

/phûud/	'to speak'	/àan/	'to read'
/nyg/	'to think'	/plɛɛ/	'to translate'
/róon/	'to cry out'	/khíd/	'to figure out'
/hũa-ró/	'to laugh'		

3. /khÿn/ 'to rise' Used after:

/jóg/	'to raise'	/aacian/	'to vomit'
/jìb/	'to pick up'	/pèed/	'to open (a cover, etc.)'

4. /loŋ/ 'to descend' Used after:

/thaan/ and /kɪn/	'to eat'	/sýy/	'to buy'
/pìd/	'to close (cover, etc.)'		

5. /hě̃n/ 'to see' Used after verbs of looking:
 /duu/ 'to look at' /lɛɛ/ 'to watch'
 /mooŋ/ 'to try to distinguish'
 - and their compounds
6. /dâj-jɪn/ 'to hear,' /khâw-caj/ 'to understand,' and /rúu-r̄yãŋ/
 'to know what something is about' All used after:
 /faŋ/ 'to listen'
7. /dâj-klìn/ 'to identify the odor of' Used after:
 /dom/ 'to sniff, try to smell'
8. /dâj-ród/ 'to identify the taste of' Used after:
 /chim/ 'to taste'
9. /thùug/ 'to hit' Used after:
 /jɪŋ/ 'to shoot' /tɪɪ/ 'to beat'
 /khwâãŋ/ and /joon/ 'to throw'
 /daw/, /thaaŋ/, and /khâad/ 'to guess'
10. /wǎj/ 'to move' Used after:
 /khl̄yan/ 'to shift' /lâag/ 'to pull (cart, etc.)'
 /thon/ 'to endure' /khě̃n/ 'to push (cart, etc.)'
11. /phób/, /cɛɛ/, and other verbs meaning 'to meet' Used after:
 /hǎã/ 'to look for, try to find' /khón/ 'to rummage'
 /khwáã/ 'to grope' -and their compounds.
12. /tòg/ 'to fall' Used after:
 /kễɛ/ 'to solve, fix, undo'
 /khíd/ 'to think out (come to a decision)'

13. /than/ 'to catch' Used after:
 /lâj/ 'to chase' /taam/ 'to follow'
 /lâa/ 'to hunt (animals)'
14. /phôn/ 'to get clear of' Used after:
 /nǎi/ 'to flee' /liig/ 'to avoid'
 /lòb/ 'to escape' - and their compounds.
15. /làb/ 'to close the eyes, sleep' Used after:
 /noon/ 'to lie down, try to sleep'
16. /lúg/ 'get up' and /tyyn/ 'wake up.' Used after:
 /plùg/ 'to awaken' /noon/ 'to be lying down'
 (/noon mâj-lúg/ means 'unable to get up')
17. /hǎaj/ 'to recover' and /fyyn/ 'to regain consciousness' Used after
 expressions relating to sickness and these verbs:
 /rág-sǎa/ 'to treat, cure'
 /kêe/ 'to resuscitate'
18. /taaaj/ 'to die' Used after verbs of violent action, with the
 meaning 'to death':
 /tii/ 'to beat' /tháb/ 'to over-run'
 /chon/ 'to collide with' /khâa/ 'to kill'
19. /tìd/ 'to stick, be stuck' Used after:
 /jùu/ 'to remain'
 (/jùu mâj-tìd/ means 'won't stay in place.')
20. /lùd/ 'to come loose' Used after:
 /dîn/ 'to wriggle'
 /dyŋ/ - and other verbs meaning 'to pull.'

Some constructions which appear to be transitive verb plus completive verb are actually single compound lexemes. Examples:

/sòob-lâj/	'to pass an examination'
/sòob-tòg/	'to fail an examination'
/tòg-loŋ/	'to come to an agreement'
/rúu-than/	'to catch on (to a fact)'

These combinations do not pass the critical test of insertion of the negative between the first and second constituents.

CHAPTER IV

BOUND LEXEME CLASSES

4.1. Modals

A modal is any bound lexeme (2.6.1.2.) which occurs as /x/ in the context /S x P/, where /S/ stands for a subject and /P/ for a predicate. Thus modals fill the same position as the free lexeme class of modal verbs (3.3.1.), the difference being that modals do not substitute for their predications and hence are not predicators. The class meaning is the same: 'mode of action, or specific applicability of situation described.' The whole class is apparently closed, and the membership is relatively small.

Modals are sub-classified on the basis of more specific contexts, revolving around a central sub-class (4.1.3.) whose members have negative meaning. The general definition of modals also fits some kinds of conjunctions, especially the /cɤŋ/ class (4.3.4.), but since these bound lexemes always precede other modals, their classification as conjunctions is considered pre-emptive. There are three definite sub-classes of modals, plus a residue of discontinuous lexemes and other miscellaneous items which make up a fourth group.

4.1.1. /khÿyn/ Class

These modals occur between /jâa/ 'don't' and a verb. (The verb, like all verbs following /jâa/, is never preceded by /ca-/, but the modal itself may be.) The class meaning is 'attitude of speaker toward the effect, timing, or setting of the action.' /khÿyn/-class modals also occur frequently without /jâa/, and are negated in statements with /mâj-dâj/ rather than /mâj/ (see 4.1.3.). The class is closed, and rather small, the principal members being the following:

1. /khÿyn/ 'to do something one knows is wrong'

jâa-khÿyn plòɔj hǎj-nũu tua-nán paj .

'Don't release that mouse, against your better judgment.'

khÿyn tham janán , thee kô-tôn sòob tòg .

'If you keep on doing that, you'll certainly fail the examination.'

2. /fÿyn/ 'to force oneself to do something distasteful'
 phèd: nág , kô-jàa fÿyn kin: khâw-paj .
 'If it's too peppery, don't force yourself to eat it.'
 khîi-kîad rÿy mâj khîi-kîad , thee kô-tôŋ fÿyn tham: paj .
 'Lazy or not, you've got to go ahead with it.'
3. /mua/ 'to keep on, to act stubbornly or tardily'
 jàa-mua thiãŋ: kan juu-lœj .
 'Let's stop this senseless arguing.'
 khâw mua duu thii-wii phlœn: paj .
 'He kept on watching television in a state of trance.'
4. /phêŋ/ or /phÿŋ/ - 'to act prematurely' (after /jàa/)
 'to have acted recently' (otherwise)
 jàa-phêŋ paj: nã, fõn tòg.
 'Don't go yet; it's raining.'
 khâw phÿŋ klàb-maa , mÿa-kíi .
 'He just got back a moment ago.'
5. /klêeŋ/ or /klêŋ/ 'to pretend, to act so as to deceive'
 thaa khruu khÿyn háj kaan-baan mâag-mâag jaŋíi , chãn caklêeŋ
 tham sòŋ-dèed .
 'If the teacher persists in giving such a lot of homework,
 I'm just going to put on a show of doing it.'
 khâw mâj-dâj-klêeŋ chom .
 'She wasn't just pretending to admire it.'
6. /lõŋ/ 'to act wrongly without realizing it'
 jàa-lõŋ khíd: paj waa , wan-níi pen wan-sùg .
 'Don't make the mistake of thinking this is Friday.'
 nág-bin khàb khryaŋ-bin lõŋ khâw-paj naj-myaŋ khâa-sÿg .
 'The pilot unwittingly flew the plane into enemy territory.'
7. /klàb/ 'to act contrary to expectations or to reverse previous
 behavior'
 chãn tyan dîi-dîi , thee klàb tham maa-kròod .
 'I was chiding you gently, but you got mad anyway.'

tèe-kòon chǎn chòob sǐi-dɛɛŋ, tèe đǎaw-níi klàb chòob sǐi-khǎaw .
'Formerly I was fond of red, but now I like green'

chǎn nýg wâa , khǎw klêŋ chom wâa aròoj , thîi-thée khǎw klàb
chòob cɪŋ-cɪŋ.

'I thought she was just pretending to like the flavor of it,
but in fact she really did like it.'

8. /èeb/ 'to act surreptitiously or from concealment'

chǎn èeb paj-duu khǎw tham .

'I sneaked in and watched them do it.'

9. /phlɔɔj/ 'to act as a follower, to tag along'

phǒm phlɔɔj paj-dúaj , dâj: mǎj .

'May I go along with you?'

10. /phaa: kan/ and /chúaj: kan/ 'to act as a group'

dèg phaa-kan-wîŋ khâam thanǒn: paj .

'The children all ran off across the street'

mǎa chúaj-kan-hàw .

'The dogs are all barking at once.'

11. /maa/ 'to act toward the speaker, or so as to affect the speaker
and his group'

jàa-maa khǎn bon kradaan-dam .

'Don't write on this (or our) blackboard.'

maa thòod phǒm thamaj ↑ .

'Why come and blame me for it?'

12. /paj/ 'to act away from the speaker, or so as to affect interests
other than the speaker and his group'

jàa-paj khǎn bon kradaan-dam .

'Don't write on that (or their) blackboard.'

đǎaw capaj tham thúaj-kêew tèeg .

'Watch out you don't go breaking any glasses.'

Members 1-8 of this class apparently exclude each other semantically,
although the only obvious pairs of antonyms are 3-4, 5-6, and 11-12. Internal
order of the class is 1-8, 9-10, 11-12.

Example: khǎyn phaa-kan-nâŋ nîŋ-nîŋ camâj-sanùg: ləəj .
1 10

'If [we] all just keep sitting still it won't be any fun at all.'

dèg phaa-kan-paj kèb dòog-máaj lên .
10 12

'The children went off to pick flowers for fun.'

Members of the class also occur freely in construction with modal verbs and other pre-verbal classes. The usual order has the /khÿyn/-class modal in second position.

thee tòn-fÿyn kin: khâw paj .

'You just have to make yourself eat it down.'

khâw chôn klêen khian bon kradaan-dam .

'He certainly likes to fool around writing on the blackboard.'

4.1.2 /mág/ Class

These modals are defined by the context /x camâj-V/. All members of the class occur more frequently without /mâj-/ than with it, and in non-negated verb phrases they behave exactly like the modal verbs (3.3.1.), sometimes entering into construction with them (below). All members except the group 5-7 occur frequently without /ca-/. The class meaning is 'likelihood or imminence of action,' and for those members which occur without /ca-/ also 'frequency of action.' Members 8-11, which all mean 'almost,' are commonly found before numeral phrases as well. /mág/-class modals cannot be directly negated, except with /mâj-châj/ in hypostasis. The class is closed, and rather small, the principal members being the following:

1. /mág/ 'frequently' /mág ca-/ 'likely to'
2. /àad/ 'characteristically' /àad ca-/ 'apt to, may'
3. /jôm/ 'frequently, characteristically' /jôm ca-/ 'likely to, apt to'
4. /khon/ 'ordinarily, certainly' /khon ca-/ 'must, must have'

naj rÿduu-nii fôn mág tòg nàg: chlaw .

'In this season it frequently rains quite hard.'

àad capen paj-dâj .

'It's quite possible.' 'It may happen.'

khâw àad camâj-paj kô-dâj.

'Then again he might not go.'

khon-khâb-ród jôm pen chaaw-tàan-prathêed .

'The drivers are frequently foreigners.'

khon thii-chÿy priidaa , khon pen phuu-chaaj .

'People named Prida are ordinarily men.'

m̄ȳa h̄n w̄a ph̄m m̄aj-j̄ū , kh̄w̄ khoj cakl̄ab b̄an .

'When he saw I was not there, he must have gone home.'

s̄i-d̄eɛŋ khoj cam̄aj-m̄i .

'There must not be any of the red.'

5. /h̄n ca-/ 'seems to, apparently'

6. /duu-m̄yan ca-/ 'seems to, apparently'

7. /th̄a ca-/ 'seems to, apparently'

s̄i-d̄eɛŋ h̄n cam̄aj-m̄i .

'There doesn't seem to be any of the red.'

kh̄w̄ duu-m̄yan cakl̄ab b̄an: l̄éew .

'I guess he has gone home already.'

n̄am th̄a-cam̄od .

'The water is apparently all gone.'

khun-c̄id th̄a cam̄aj-m̄a .

'I guess Chit is not coming.'

8. /k̄ȳab/ 'almost' /k̄ȳab ca-/ 'about to, nearly'

9. /cuan/ 'almost' /cuan ca-/ 'about to, nearly'

10. /th̄êb/ 'almost' /th̄êb ca-/ 'about to, nearly'

11. /rim/ 'almost' /rim ca-/ 'about to, nearly'

n̄am k̄ȳab cam̄od .

'The water is nearly all gone.'

ch̄n̄ khoj: j̄ū , k̄ȳab s̄am ch̄u-mooj .

'I was waiting for almost three hours.'

kh̄w̄ l̄en: kan , k̄ȳab con m̄ȳyd .

'They played until it was almost dark.'

r̄od-faj cuan capaj: j̄ū-l̄éew .

'The train is already about to go.'

ch̄n̄ n̄ȳaj th̄êb-cataaj .

'I'm about to die from fatigue.'

th̄i-n̄an̄ th̄êb cam̄aj-m̄i .

'There are almost no seats left.'

12. /kamlaŋ/ 'in the process of, somewhat' /kamlaŋ ca-/ 'about to'

13. /khôn-kh̄aŋ/ 'rather, quite' /khôn-kh̄aŋ ca-/ 'beginning to'

14. /chág/ 'rather, quite' /chág ca-/ 'beginning to'
 phîi-chaaj kamlaj rian năj-sŷy thîi-nân .
 'Older brother is studying there.'
 nóoj kamlaj capaj hăa-sŷy năj-sŷy thîi-nân .
 'I was about to go shopping for books there.'
 tềej rooj jaŋi khôn-khâaj sŷaj .
 'The hall is rather pretty, the way it's decorated.'
 ŋaan chanîi , prachaa-chon chág capaj-kan-jâj .
 'The people are beginning to go for this kind of fair in a big way.'
 phûud kakhăw chág-cabŷa .
 'It was rather boring talking to him.'

The members of this class apparently exclude each other semantically, although there are no obvious pairs of antonyms. There is consequently no internal order for the class.

/mág/-class modals combine freely with modal verbs and other pre-verbal classes. They always precede such items.

- nág-rian àad camâj-tôj paj kô-dâj .
 'The students may not have to go, at that.'
 phôm kyab camâj-khêej paj lên-nám thalee .
 'I have almost never been swimming' in the ocean.'
 ŋaan nîi chág cakhôj-sanùg khŷn .
 'This celebration is finally starting to get rolling (beginning to be more fun).'

4.1.3. /mâj/ Class

This class of modals consists of the negative /mâj/ and its replacements, most of which are lexemes containing the morph /mâj/ as first constituent. The various members of the class individually precede only certain types of predicate elements, with which they are in direct construction, but the class as a whole occurs before all types of predicate: verb, modal verb, adjective, completive verb, noun, and prepositional or numeral phrase. Each member has a special relationship with /ca-/ which has to be stated separately.

The class meaning is 'negative; restriction on the applicability of a proposition.' The members of the class not only exclude each other but also exclude the interrogative particle /măj/ from the same clause. The class is small and closed, consisting of only these nine members.

1. /mâj/, or /mǎj/ 'not, other than'

Occurs unstressed and in close juncture with its predicator, which is a verb, adjective, completive or modal verb. First form nearly always occurs before prepositional and numeral phrases, but otherwise /mǎj/ is more common. Both forms follow /ca-/, and never precede it.

- phǒm mǎj-khêej paj: lœej . /khêej/, modal verb
 'I have never gone there.'
- phǒm mâj-paj: lœej . /paj/, verb
 'I'm not going at all.'
- phǒm paj mǎj-dâj: lœej . /dâj/, completive verb
 'I can't go at all.'
- phǒm paj mǎj-saduag: lœej . /saduag/, adjective
 'It's not at all convenient for me to go.'
- phǒm àad camâj-paj kô-dâj .
 'I may not go, either.'
- jaŋ mâj sǒŋ moonj: nîi .
 'Well, it's not two o'clock yet.'
- khǎw waan caan , mâj naj-tûu .
 'She put the dishes not (elsewhere than) in the cabinet.'

2. /mǎj-dâj/ or /mǎj-dǎj/ 'in fact not, subject other than what is assumed.'

(Commonest in past situations but also occurs in present and future situations regarded as not capable of change.)

Conditions of occurrence are the same as for /mâj/, except that /mǎj-dâj/ is rare before modal and completive verbs and prepositional phrases.

- phǒm mǎj-dǎj-paj . /paj/, verb
 'I didn't go.' or 'I'm not the one who is going.'
- phâa nîi mǎj-dǎj-diï . /diï/, adjective
 'This cloth is not the good cloth (some other cloth is).'
- or 'This cloth is not (as you seem to think) good.'
- ród-faj jaŋ mǎj-dǎj-paj .
 'The train hasn't gone yet.'

nág-rian triam mǎj-dǎj-khèn . nág-rian naaj-róoɔj: thâw-nán ,
thîi khèn .

'The preparatory students don't compete. Only the officer
candidates do.'

The contrast between /mâj/ and /mǎj-dâj/ is neatly pointed up by the
following pair of exchanges:

- Q. khrÿaŋ ùn léew rÿ-jaŋ . 'Is the engine warm yet?'
A. jaŋ mâj-ùn . 'No, not yet. (It isn't warm yet.)'
Q. ùn khrÿaŋ léew rÿ-jaŋ . 'Have you warmed up the engine yet?'
A. jaŋ mǎj-dǎj-ùn . 'No, not yet. (I haven't warmed it
up yet.)'

In addition to substituting for /mâj/, /mǎj-dâj/ also occurs in places
where /mâj/ does not, for example before /khÿyn/-class modals:

chǎn mǎj-dǎj-klêeŋ chom: rǔg † .
'I didn't pretend to admire it!'

3. /mǎj-châj/ or /mǎj-chǎj/ 'not a case of, predicate other than what
is assumed'

Occurs most commonly before noun predicates, but is also found
before adjectives, verbs, prepositional and numeral phrases, and
(facultatively, at least) before any lexeme of the language whatso-
ever, in hypostasis. First form occurs in isolation and normally
precedes nouns and non-predicates; second form occurs elsewhere,
unstressed and in close juncture. Both are preceded by /ca-/'.

mǎj-châj bâan . týg .

'It's not a (wood) house. It's a stone building.'

aakâad mǎj-chǎj-róon . phoo sabaaŋ .

'The weather isn't hot, it's just right.'

khǎw waaŋ caan mǎj-châj naŋ-túu .

'She puts the dishes somewhere besides in the cupboard.'

mǎj-châj hòg khon . hâa khon: thâw-nán .

'Not six people. Only five.'

nág-rian triam mǎj-chǎj-khèn . fyg .

'Competing is not what the preparatory students do. They prac-
tice.'

(Compare with last example under 2. /mǎj-dâj/ above)

The contrast between /mǎj-dǎj/ and /mǎj-châj/ is also illustrated by the following:

- khon-nán mǎj-dǎj-chÿy phoon .
'That person isn't named Porn.'
chÿy khon-nán mǎj-châj phoon . sanid .
'That person's name isn't Porn. It's Sanit.'

This modal occurs also in many fixed expressions; for example:

- mǎj-chǎj-nóoj
'not a few, not a little, much, many'
mǎj-chǎj-lên
'in earnest, considerably'
(lit: 'not for fun')

4. /mǎj-khôj/ or /mǎj-khǒj/ 'hardly, not very; hardly ever, not very much'

Conditions of occurrence are the same as for /mâj/, except that /mǎj-khôj/ is rare before modal verbs and numeral phrases and in isolation. Also, it normally precedes /ca-/, rather than following it as /mâj/ does, and in such cases occurs in its first form.

- phâa nîi mǎj-khǒj-dii .
'This cloth isn't very good.' /dii/, adjective
phôm-eeŋ mǎj-khǒj-paj .
'I myself hardly ever go.' /paj/, verb
khǎw mǎj-khǒj jàag capaj .
'She doesn't really want to go' /jàag/, modal verb
duu mǎj-khôj casǎaj: læej .
'It doesn't look at all pretty.' /sǎaj/, adjective
duu léew , noon mǎj-khǒj-làb .
'After having seen it, one can hardly sleep.' /làb/, completive verb

5. /mǎj-than/ 'has not had time to, had not (by that time)'

Occurs commonly before verbs and completive verbs; rare elsewhere. Follows /ca-/.

- weelaa-nán khěen jaŋ rág-sǎa mǎj-than-hǎaj .
'At that time the arm had not yet been /hǎaj/, completive verb
healed.'

phǒm jaŋ mǎj-than khâad: sã-iig .

'I hadn't even guessed it yet.'

/khâad/, verb

6. /mǎj-jág/ 'has not (in the long run), not (in spite of expectations)'

Conditions of occurrence are the same as for /mǎj-than/.

chǎn cheen khǎw léew , tɛɛ khǎw mǎj-jág maa.

'I invited him, but he didn't come.'

khun sanid paj , tɛɛ mia khǎw mǎj-jág paj .

'Sanit went, but his wife didn't.'

!nê † maa nân: léew. ! âaw † mǎj-jág châj .

'There! There he comes. Oh! It's not him after all.'

7. /mǎj-hěn/ or /mǎj-hěn/ 'apparently not, in my opinion not'

Occurs commonly before verbs and adjectives; rare elsewhere.

The corresponding construction with /ca-/ is /hěn-camâj/, in which /hěn/ is a member of the /mág/- class and /mâj/ is the only representative of the present class.

khun sanid mǎj-hěn-maa: sã-thii .

'Apparently Sanit hasn't come.' or

'I don't think Sanit is coming.'

/maa/, verb

dòog nîi , chǎn mǎj-hěn sǎaj: leej .

'This flower doesn't seem at all pretty to me.' /sǎaj/, adjective

8. /mǎj-cheeŋ/ 'not really, really not'

Conditions of occurrence are the same as for /mǎj-hěn/. Does not occur with /ca-/.

phǒm kǔ-mǎj-cheeŋ klua: thidiaw ròg .

'Well, I wasn't really exactly afraid at all.' /klua/, verb

9. /jàa/ 'don't, shouldn't'

Occurs commonly before transitive verbs and /khÿyn/- class modals, and in isolation; less commonly before adjectives and other verbs. Never occurs before prepositional or numeral phrases, or in the same construction with /ca-/.

jàa-paj nǎj: ləəj nǎ ↑ .		
'Don't go away anywhere, will you?'	/paj/,	verb
phīi jàa duu-thùug .		
'Older brother shouldn't disparage it.'	/duu-thùug/,	verb
jàa-khǎyn kin khǎw-paj: sɪ .		
'Then don't (obstinately) eat it.'	/khǎyn/,	modal
jàa rew: nǎg .		
'Not so fast!'	/rew/,	adjective

4.1.4. Miscellaneous Modals

The following do not comprise a sub-class of modals, but are residue from the preceding three clearly-defined sub-classes. The discontinuous and parallel modals (1-4) satisfy the class definition only insofar as some of their elements are concerned; the remaining modals (5-8) satisfy the general definition perfectly but have functional peculiarities which prevent their being included in one of the sub-classes.

1. /òd... mâj-dâj/ 'to be unable to keep from'

Occurs discontinuously (see 2.5.3.1.) around verbs and verb expressions. The morph /òd/ itself does not substitute for such predicates, and hence is not a modal verb by itself. Examples:

khǎw òd phûud khwaam-ciŋ mâj-dâj .

'He was unable to keep from telling the truth.'

chǎn òd jím mâj-dâj .

'I couldn't repress a smile.'

(/jím/ is a verb, 'to smile.')

2. /kèəd... khÿn/ 'it originates, a new thing happens'

Occurs discontinuously around verbs, verb expressions and whole predications. (In the last case any item preceding /kèəd/ in the same clause is a topic.) In all cases, neither /kèəd/ nor /khÿn/ substitutes for the whole. Examples:

ród-phǒm kèəd jaan-tèəg: khÿn .

'My car developed a flat tire.'

(/jaan-tèəg/ is a possible predication: 'tire bursts'.)

kèəd ród chon: kan khÿn .

'It happened that there was an accident.'

(/ród chon: kan/ is a possible predication: 'cars collide.')

kèəd khèŋ-khǎn: kan khÿn .

'Suddenly started competing with each other.'

(/khèŋ-khǎn: kan/ is a verb expression: 'to compete.')

3. /t`aaŋ... t`aaŋ/ 'each one in a different way'

Occurs in parallel construction (see 2.5.3.3.) with whole predications. The subject fills the slot between the two /t`aaŋ/'s; the second /t`aaŋ/ is the part of the reduplicated lexeme which fills the modal position, and can be followed by any kind of predicate.

Example:

t`aaŋ khon , t`aaŋ d`een-thaaŋ .

'Each person travels separately (goes his own way).'

On the basis of its first element, /t`aaŋ... t`aaŋ/ is also classified as a /d`iaw/-class conjunction (4.3.1.).

4. /j`iŋ... j`iŋ/ 'the more... the more'

Occurs in parallel construction, introducing two predications which may or may not have the same logical subject. In cases where a real subject is present, the element /j`iŋ/ precedes it, and only when a subject is lacking does either /j`iŋ/ fall into the modal position. Examples:

naa-l`ikaa kh`oŋ-chǎn , j`iŋ aw-paj-k`êe , j`iŋ d`een rew: khÿn ,
rew: khÿn , th`ug th`i .

'The more I take my watch to be repaired, the faster it runs.'
(The topic /naa-l`ikaa kh`oŋ-chǎn/ 'my watch' is the logical object of the first predicate /aw-paj-k`êe/ 'take to be repaired' and the logical subject of /d`een... th`ug th`i/ 'runs faster and faster all the time.' Both predicates, however lack real subjects.)

j`iŋ m`i khon m`aag , j`iŋ san`ug .

'The more people there are, the merrier.'

On the basis of the possible occurrence of either element /j`iŋ/ before subjects, the item /j`iŋ... j`iŋ/ is also classified as a /d`iaw/-class conjunction (4.3.1.).

5. /ch`aŋ/ 'really, how surprisingly so, how, sure'

This modal probably belongs to the /m`ag/ class (4.1.2.) but has several peculiarities. Unlike all other members of the /m`ag/ class, it is never followed by /ca-/. It has a lexical relationship with the negative /m`aj-cheeŋ/ 'not really' (4.1.3.8.) with which it is

in complementary distribution, and in the form /châŋ/ cannot be negated at all. The clauses in which it occurs quite often have the 'emotional involvement' intonation morpheme / ↑ /. Finally, it sometimes comes before the subject (instead of after it, as do all true modals). Examples:

dèg khon-níi châŋ-phûud: cɪŋ ↑ .

'This child really knows how to talk!'

!mǝɛ , duu sǐ ↑ châŋ mâj-klua: sǎ-ləɛj ↑ .

'Say, but look! He's not a bit afraid!'

châŋ phûud dâj ↑ .

'How can you say such a thing!'

khun châŋ khàb-ród rew: lǎkəən ↑ .

'You sure do drive fast!'

6. /khôj/ or /khǒj/ 'only then, not until then, after having waited a while.'

This modal resembles the /khǎyn/-class modals (4.1.1.) in every respect except that it does not occur in the definitive context (after /jàa/ 'don't'). It precedes mainly verbs and adjectives, and follows /ca-/ and the /mǎg/-class modals. It is frequently found in commands, where it is in direct contrast with /jàa-phêŋ/ 'don't yet.' Its semantic opposite /phêŋ/ 'just now, not until now' is in fact a /khǎyn/-class modal (4.1.1.4.). The morphologically related negative /mǎj-khôj/ 'not very' (4.1.3.4.) does not have an exclusively temporal meaning, and is considered to be a separate lexeme, rather than a syntactic construction of /mâj/ plus /khôj/, because it replaces /mâj/ everywhere. In the examples below, illustrations of /phêŋ/ are included for contrast.

khâaw mýa pɪɪ thɪɪ-léɛw mâj-ŋôog ɲaam , tɛɛ pɪɪ-níi khôj dɪɪ khýn .

'The rice last year didn't grow well, but this year it's a little better.'

mýa-waan-níi phêŋ róon khýn .

'It didn't get hotter until yesterday. (Only yesterday did it get hotter.)'

jàa-phǎŋ hǔŋ khâaw dǎaw-níi . ìŋg hâa naa-thɪɪ , thǎŋ' khôj hǔŋ .

'Don't cook the rice now. Wait five minutes and then cook it.'

jaŋ: kòon . dǎaw khǒj-paj .

'Not yet. Wait a little and then go.'

qaan nîi chăg-cakhôj-sanùg khÿn .

'This celebration is finally starting to be fun.'

7. /khôj-không/ 'gradually, gently'
/rîib-rîib/ 'hurriedly, without pausing'

These and other reduplicated lexemes of similar meaning are sometimes found in the modal position as well as their normal complement position. The first is based on the modal /không/ above, the second on a modal verb /rîib/ 'to hurry.' The difference in meaning seems to be that the modal position refers more to the inception of action and the complement position to the action as a whole.

khôj-không lên ↑.

'Don't play excitedly (when you start to play)!'

lên khôj-không ↑.

'Play more quietly (than you are now)!'

khôj-không phũud: nã .

'Speak softly, now.'

khăw rîib-rîib phũud .

'He started talking in a big rush.'

8. /ca/ 'hypothetical situation,' the most common modal of all, is also a preposition - see 4.2.6.3.2. for examples.

4.2. Prepositions

A preposition is any bound lexeme which introduces exocentric complement phrases. The function of prepositions is analogous to that of modals, the difference being that the co-constituents of prepositional phrases are substantive rather than predicative expressions. The relationship between prepositions and head-nouns is the same as that between modals and modal verbs (which always head their predicates); the larger construction is of the same type but the preposition (or modal) cannot replace it, whereas the head noun (or modal verb) can. In addition, prepositions normally have weak stress.

The class of prepositions is not very large, but must be considered open. Members include homonyms of both substantive and predicative lexemes which, when stressed, are heads of endocentric expressions. For example, the stressed item /we-laa/ means 'time' and is an abstract noun:

/we-laa wâaŋ/ 'free time'

/sốŋ we-laa/ 'two separate times'

But weak-stressed /welaa/ is a preposition 'at':

/welaa/ sǒŋ moŋ/ 'at two o'clock'

On the other hand, many of the most common prepositions do not have such homonyms - e.g. /naŋ/ 'in.'

The class meaning is 'spatial, temporal, numerical, or logical restriction on a substantive concept.' Prepositions are sub-classified into five categories, with an important residue of extremely common items (4.2.6.).

4.2.1. /naŋ/ Class

This class of prepositions is morphologically defined by occurrence in derivatives with the lexical prefix /khâŋ/ or /khân/ 'side' (see 2.4.1. 7.). A few also make other derivatives with the prior elements /bâyŋ-/ 'side,' /thaŋ-/ 'way,' /phaaŋ-/ 'scope,' /toon-/ 'part.' The resultant derivatives are nouns, and at the same time /thamaŋ/- class complementives (3.2.2.3.8.). They also fill most of the positions of their base prepositions as well. By themselves, /naŋ/-class prepositions occur with weak stress before and in construction with all types of nouns and noun-expressions; they are rare before verb-expressions. The class meaning is 'locative reference.'

The class is closed and small, and its members are grouped in pairs of semantic opposites. Following are the important members and their derivatives. The context for all examples is the same:

man juu...nân
'It is... there.'

	<u>Preposition</u>		<u>Derivatives</u>
1.	/naŋ/ 'in'	/khâŋ-naŋ/	'inside'
		/phaaŋ-naŋ/	'within'
2.	/nôŋg/ 'outside of'	/khâŋ-nôŋg/	'outside'
		/phaaŋ-nôŋg/	'without'
3.	/bon/ 'on, up in'	/khâŋ-bon/	'top, upper portion, upstairs'
		/bâyŋ-bon/	'upper side, etc.'
4.	/lâaŋ/ 'under, down in'	/khâŋ-lâaŋ/	'bottom, lower portion, downstairs'
		/bâyŋ-lâaŋ/	'lower side, etc.'

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|-----|---------|-------------------|--------------|--------------------------|
| 5. | /n̄ya/ | 'above' | /khâŋ-n̄ya/ | 'up above' |
| | | | /phaaj-n̄ya/ | 'in superior position' |
| | | | /thaaŋ-n̄ya/ | 'north' |
| 6. | /tâj/ | 'below' | /khâŋ-tâj/ | 'down below, underneath' |
| | | | /phaaj-tâj/ | 'in inferior position' |
| | | | /thaaŋ-tâj/ | 'south' |
| 7. | /nâa/ | 'In front of' | /khâŋ-nâa/ | 'front' |
| | | | /phaaj-nâa/ | 'future' |
| 8. | /lăŋ/ | 'behind' | /khâŋ-lăŋ/ | 'back' |
| | | | /phaaj-lăŋ/ | 'future, after' |
| 9. | /khâaŋ/ | 'beside' | /khâŋ-khâaŋ/ | 'alongside, to one side' |
| 10. | /klaaŋ/ | 'In the midst of' | /khâŋ-klaaŋ/ | 'middle' |
| | | | /toon-klaaŋ/ | 'middle part' |

As simple prepositions, the members of the /naj/ class exclude each other, but many combinations involving the derivatives occur. There is no internal order for the class.

4.2.2. /câag/ Class

The class consists of prepositions which occur in the same constructions as the /naj/ class, but also occur before, and in construction with, phrases introduced by /naj/-prepositions. The class meaning is 'direction and limits of motion.'

The class must be considered open, since weak-stressed verbs of motion freely enter in (an example is 13. /sâj/), but the number of frequent, standard members is small. In this latter category are members 1-4, which are among the most frequent lexemes in the language. Most members have homonyms belonging to other classes.

Besides the members listed below, the following mainly literary prepositions belong to the /câag/ class:

/ná/	'at'	/s̄yŋ/	'against, toward, object sign'
/s̄uu/	'toward'	/jaŋ/	'to'

Where these items have colloquial uses, however, they are listed under the appropriate category (e.g. /jaŋ/ in 4.2.3.6.). Also not listed below are three prepositions requiring special treatment: /kwàa/, /khǒoŋ/, and /hèeŋ/ (see 4.2.6.4.). The principal colloquial members of the /câag/ class follow.

1. /càag/ or /càg/ 'from, away from, out of'
 òog maa càag tâj tôn-máaj .
 'Came out from under a tree.'
 dìn-sǒo lùd paj-càag-myy .
 'The pencil slipped out of his hand.'

2. /tèε/ or /tè/ 'from, from the direction of, from the time of'
 òog dæen-thaaj tèε-cháaw mýyd .
 'Started traveling in the early morning.'
 ('from the early morning.'
 daaj khýn tè-lǎj pratuu .
 'There was a noise from behind the door.'

3. /thîi/ or /thĩ/ 'at, to, over at, in the possession of'
 khoaj jùu-thîi-nâa rooŋ-rían .
 'He's waiting (over) in front of the school.'
 phób kan thĩ-bâan phýan .
 'We met at a friend's house.'
 paj thĩ-bâan phýan .
 'Go over to a friend's house.'
 jùu thĩ-chǎn , hâa bàad .
 'I still have (or owe you) five baht.'
 ('There remains to me five baht.')

4. /thỹŋ/ or /thỹŋ/ and /con/ 'to, all the way to, reaching'
 òog paj thỹŋ-klaaj mêε-náam .
 'Went out into the middle of the river.'
 klàb-maa thỹŋ-bâan welaa sǒoŋ thũm .
 'Got back to the house at eight p.m.'
 jùu thîi-nân con sǎam thũm .
 'Stayed there until nine p.m.'

5. /troŋ/ 'right at, right to'
 jùu troŋ-klaaj mêε-náam .
 'It's right in the middle of the river.'
 jùd troŋ-nán: eeŋ .
 'Stop right there.'

- thùug tron nâa-òg .
 'Was hit right in the chest.'
6. /taam/ or /tam/ 'along, following, according to, from one to another of'
 wîŋ paj-tam-thanôn .
 'Run along the street.'
 phûud taam-phôm .
 'Say it after me.'
 rỏoŋ taam caŋ-wà .
 'Sing according to the rhythm.'
 hãa-sýy tam-ráan .
 'Shop for it from one store to the next.'
7. /thaan/ or /than/ 'in the direction of, by way of'
 jùu thaan-nôog pratuu .
 'It's somewhere outside the door.'
 líaw than-sáaj .
 'Turn to the left.'
 maa thaan mêe-náam .
 'Came by way of the river.'
 paj thaan rya-bin .
 'Go by plane.'
8. /thěew/ or /thěw/ 'to or in the general vicinity of, near'
 lén kan thěw-nâa rooŋ-rian .
 'They play around the front of the school.'
 thěew-bâan phôm mii jé .
 'There are a lot of them in my neighborhood.'
9. /kàb/ and /ka-/ 'with, with respect to, to'
 jùu klâj kàb-bâan phôm .
 'It's near (with respect to) my house.'
 paj kàb-phôm dli kwàa .
 'Better go with me.'
 fàag nãŋ-sýy kàb-phyan .
 'Leave books with a friend.'

- hâj năŋ-sŷy kaphŷan .
 'Give books to a friend.'
 (See also /ka-/ under 10. /kêɛ/ and under miscellaneous prepositions, 4.2.6.3.).
10. /kêɛ/ or /kê/ and /ka/ 'toward, to, for'
 thŷŋ kè-kam léew .
 'He is dead (has attained to death).'
 hâj năŋ-sŷy kè-phŷan .
 'Give books to a friend.'
 dâj kèɛ-khǒŋ thúg-jàaŋ
 or: dâj kakhǒŋ thúg-jàaŋ .
 'Applies to all kinds of things.'
11. /tòɔ/ or /tò/ 'toward, in the presence of, distributively to'
 phũud tòɔ-nâa khǎw .
 'Say it to his face.'
 jyyn taa tò-taa .
 'Stand eye to eye.'
 Before metric classifiers and numeral phrases, /tòɔ/ means 'per':
 hâa-sìb kiloo-méd tòɔ chûa-mooŋ .
 'Fifty kilometers per hour.'
12. /khêɛ/ 'stopping at, going no further than'
 paj khêɛ waŋ-lǎaŋ .
 'Goes only as far as the palace.'
 (Also a member of the /dooj/-class, 4.2.3.16.)
13. /sàj/ 'into, at so as to hit.'
 faj-chég tòg sàj-caan tềeg .
 'The lighter fell into the dish and broke it.'
 jŋ sàj tôn-máaŋ .
 'Shoot at a tree.'
14. /pracam/ 'located at, associated with'
 pen thũud pracam krun-thêeb .
 'He's a diplomat stationed in Bangkok.'

There is no internal order for the class, but specific combinations of members occur, within the class and outside, which are better considered as single lexemes:

/thỹŋ-kàb/ 4 9	'to the point of'
/taam-thîl/ 6 3	'according to'
/tron-khâam/ 5	'opposite, right across from'
/lăŋ-càag/ 1	'after'
/tâŋ-têê/ 2	'since'
/thỹŋ-khêê/ 4 12	'only to the point of'

4.2.3. /dooj/ Class

The class consists of prepositions which occur before, and in construction with, both noun and verb expressions. Most members, in fact, occur before whole clauses as /thâa/-class conjunctions (4.3.2.). The class meaning is 'temporal, spatial or logical condition,' and the resulting phrases function syntactically as complements. Like /thamaŋ/-class complementives, for which /dooj/-introduced prepositional phrases freely substitute, the phrases are reversible with respect to the head constituents; the only difference in meaning is a slight change of emphasis.

The class is open, and quite large, containing many nearly-synonymous members. Following are the most important members, with their approximate meanings.

1. /m̃ya/ or /m̃ya/ 'at the time of'
2. /kòon/ or /kòn/ 'before'
3. /wela/ and /tòon/
or /tòn/ 'during the time of, at or in (a part of the day)'
4. /phoo/ or /pho/ 'as soon as the time of'
5. /con-thỹŋ/ or /con-thỹŋ/
and /con-krathân/ 'until, up to the time of, up to the point of'
6. /jaŋ/ 'to, to an end-point of'
7. /lăŋ-càag/ or /lăŋ-càg/ 'after'

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| 8. | /tâŋ-têɛ/ or /tâŋ-tê/ | 'since, all the way from, with beginning member as' |
| 9. | /nôog-càag/ or /nôog-càg/ | 'besides, outside of' |
| 10. | /wén/ and /wén-têɛ/ | 'except for' |
| 11. | /rãwàaŋ/ | 'between, among, during the time of' |
| 12. | /talòod-con/ | 'including, with final member as'
(Often follows 8. /tâŋ-têɛ/, in the meaning 'everything from... to...') |
| 13. | /jàaŋ/ or /jàŋ/ | 'like, such as, in the manner of' |
| 14. | /chên/ | 'like, for example' (construction often closed with /pen-tôn/) |
| 15. | /mÿan/ or /mÿan/ | 'resembling, like' |
| 16. | /thâw/ or /thãw/ and /khêɛ/ | 'to the extent of' |
| 17. | /dooj/ or /doj/ | 'by means of, by the agency of' |
| 18. | /dûaj/ or /dãj/ | 'with, with the material of' |
| 19. | /phró/ or /phrõ/ | 'because of' |
| 20. | /nÿaŋ-càag/ or /nÿaŋ-càg/ | 'on account of' |
| 21. | /phÿa/ | 'for the purpose of' |
| 22. | /sãm-ràb/ or /sãmràb/
and /súan/ | 'for, as for, for the purpose of' |
| 23. | /chaphó/ | 'directed toward, especially for' |
| 24. | /fàaj/ | 'on the part of, from the side of' |
| 25. | /pen/ | 'as, so as to become' |
| 26. | /thɛɛn/ or /then/ | 'instead of, so as to replace' |
| 27. | /rÿaŋ/ | 'on the subject of' |

Members of the /dooj/-class normally exclude each other except insofar as they form single-lexeme compounds, for example:

/jàaŋ-chên/	'such as'
13 14	

Of all the members of the class listed above, only a few can substitute for their typical phrases, and even these members occur by themselves only at the end of clauses, not at the beginning, and hence are /eeŋ/-class complementives (3.2.2.2.). These are:

2. /kòon/ 'beforehand' But also, /kòon-nán/ 'before that'

18. /d̥uaj/ 'with it, in addition' But also, /d̥uaj-kan/ 'with each other, together'
26. /thɛɛn/ 'instead'

All other members form complement phrases or derive complementives by addition of objects like /nán/ (e.g. 1, 3, 7, 8, 9, 11, 13, 14, 16) or /kan/ (e.g. 15, 16, 18) or /níi/ (e.g. 2, 3, 7, 9, 11, 13, and 16 /khêɛ/) with various meanings. There are also a few highly irregular derived complementives:

4. /phɔ-dii/ 'just now, just then'
14. /chên-diaw-kan/ 'in the same way'
19. /phrɔ̄-chanán/ 'for that reason'
21. /phya/ 'for a purpose, in reserve' (note change of tone)
23. /dooj-chaphó/ 'especially'

Two additional members of this class which require special treatment, /hâj/ and /aw/, are listed with the miscellaneous prepositions (4.2.6.1.).

4.2.4. /rôob/ Class

These prepositions belong to none of the preceding classes but are weak-stressed forms of verbs (mostly completive verbs, 3.3.4.) which occur before nouns in the typical prepositional construction. They do not normally occur before verbs or introduce clauses. The class meaning, is 'route or timing of motion or distribution'. The resulting phrases can all be substituted for by the corresponding free form with normal stress.

The class is not large, but presumably open, since any completive verb is a candidate for membership. Phrases introduced by /rôob/-class prepositions, especially 5-10, are more frequently negated than any other type of prepositional phrase. Following are some important members.

1. /khâam/ 'across, over on the other side, of'
- dɛɛn khâam-thanǎn 'walk across the street'
- jùu khâam-thanǎn . 'It's across the street.'
2. /troŋ-khâam/ 'directly across from, opposite'
- troŋ-khâam karoŋ-nǎŋ 'opposite the theatre'
3. /rôob/ and /rôb-rôob/ 'around, completely circling'
- nâŋ rôob-tó 'seated around the table'

4. /ôom/ and /ôm-ôm/
 deem ôom-tó . 'around, detouring, half-circling'
 'walk around the table (as a detour)'
5. /talòod/
 talòod-chiiwíd 'all the way through (one dimension, as
 time or a road), from one end to the
 other'
 talòod-thaaj 'all through life'
 'the whole way'
6. /thûa/
 thûa-lôog . 'throughout (two or three dimensions),
 pervading, all over'
 'all over the world'
7. /khrób/
 sýy dâj khrób-chúd . 'completing a set, the full amount of'
 'able to buy the whole set'
8. /mòd/
 mòd-rɛɛŋ 'depleting a set, the last bit of'
 'every last bit of strength'
9. /phón/
 phón-thúg 'beyond, past, clear of, free of'
 'free of sorrow'
10. /than/
 than ród-faj 'in time for, catching up with'
 'in time for the train'
11. /ráj/ or /ráaj/ and
 /pràad-sacàag/
 ráj hèed-phón 'without, devoid of'
 'without reason'
 práad-sacàag khwaam-mǎaj 'without meaning'
12. /tem/
 tem kamlaŋ 'full of, filling up'
 'at full strength'
 tem-nâa 'all over the face'
13. /tìd/
 tìd fǎa-phanǎŋ 'sticking to, up against'
 'on the walls'

14. /tòò/ 'joined to, extending from, in line with'
 tòò fǎa-phanǎŋ 'in line with the wall'
 tòò-rúa loŋ-paj 'extending down from the fence'.
15. /thâw/ or /thǎw/ 'to the extent of, equal to'
 sũuŋ thâw phîi-chaaj 'as tall as his elder brother'
 (Also a member of /dooj/ class, 4.2.3.16.)

4.2.5. /sǎg/ Class

The class consists of prepositions which occur immediately before, and in construction with, cardinal numeral (3.2.6.1.) phrases. The class includes one set of members which are homonymous with /mǎg/-class modals (6, below) and these are the only members after which /ca-/ intervenes before the numeral (in time expressions). The entire construction in all cases is still a cardinal numeral construction, and non-negatable. The class meaning of /sǎg/-prepositions is 'attitude toward the accuracy, size, distribution, or inclusiveness of a numeral expression.' The class is closed, and rather small; all common members are represented here.

1. /ìig/ 'another, an additional number of'
 khǎw dâj-ráb còd-mǎaj ìig-sỏoŋ chabàb .
 'He received two more letters.'
 tởŋ khỏoŋ ìig-sỉb wan .
 'We have to wait another ten days.'
2. /thỹŋ/ or /thǎŋ/ 'up to, a complete set of'
 àad-catỏŋ khỏoŋ thỹŋ-sỉb wan , kỏ-dâj .
 'We may even have to wait the full ten days.'
 khǎw capaj: kan , thǎŋ-sǎam khon .
 'All three of them are going.'

3. /tẻ-lǎ/ and /khon-lǎ/ 'each, different, ...at a time'
 (Although /khon/ is also a classifier for persons, and /lǎ/ a distributive postposition, described in 4.4.4., it is clear that /khon-lǎ/ is a compound preposition of the /sǎg/ class, because, like /tẻ-lǎ/, it is used to refer to all types of nouns, not merely people.) Examples:

- khǎw paj: kan , khon-lǎ-thaaj .
 'They went off in different directions (each one way).'

aw tề-lấ-sốoŋ an d11 kwàa .

'It's better to take two of each.'

phỉd kan khon-lấ-jảaŋ .

'Each kind is different.'

4. /thũg-thủg/ 'every, at intervals of'

chảaŋ thũg-thủg sảam dyan .

'It is shown every three months.'

(This item, which is a reduplication of /thủg/, and item 3. above closely resemble the partitive numerals described in 3.2.6.3., but differ in that they occur before cardinal numerals, whereas partitive numerals do not.)

5. /raaw/ or /raw-raaw/ 'approximately (time or quantity)' and
and /pramaan/ 'approximately (quantity only)'

khảaŋ raakhaa pramaan hầa-rốoŋ bàad .

'It sells for approximately five hundred baht.'

phỏm òoŋ càag thầi-nần raw-raaw sầi thầm .

'I left there at about ten p.m.'

cầag nầi , kồ-raaw nựn-rốoŋ mếd .

'It's about a hundred meters from here.'

6. /cuan/ or /cuan ca-/ and /kỷab/ or /kỷab ca-/ 'almost'

phỏm khooŋ: jùu , kỷab-sốoŋ chầa-mooŋ .

'I was waiting for almost two hours.'

cuan-casảam mooŋ lếw .

'It's nearly three o'clock.'

7. /kềen/, /kềen-kwầa/ and /kwầa/ 'in excess of'

phỏm khooŋ: jùu , kềen-kwầa sốoŋ chầa-mooŋ .

'I was waiting for over two hours.'

khảaŋ raakhaa kềen hầa-rốoŋ bàad .

'It sells for more than five hundred baht.'

8. /phỉaŋ/ and /phêŋ/ or /phỷŋ/ 'only'

khảaŋ raakhaa phỉaŋ hầa-rốoŋ bàad: thầw-nần .

'It sells for only five hundred baht.'

phǒm sýy dâj phiaŋ-hâa chabàb .
'I was able to buy only five copies.'

phêŋ sǎam mooŋ .
'It's only three o'clock.'

khǎw mii lûug phiaŋ-sǒoŋ khon .

or: khǎw phỹŋ-mii lûug sǒoŋ khon .
'She has only two children.'

(See also the modal /phêŋ/, in 4.1.1. and 4.1.4.)

9. /tâŋ/ or /tǎŋ/ 'all of, as much as, the surprisingly high number of'

phǒm khoŋj: jùu , tâŋ-sǒoŋ chûa-mooŋ .
'I was waiting for all of two hours.'

càag nîi , kǒ-tâŋ hâa-róoŋ méd .
'It's at least five hundred meters from here.'

10. /sǎg/ or /sàg/ 'the inexact number of, the unreal quantity of'

phǒm capaŋ-sýy nǎŋ-sýy sǎg-sǒoŋ lêm .
'I'm going to buy a couple of books.'

phǒm capaŋ-sýy nǎŋ-sýy sàg-lêm .
'I'm going to buy a book (unspecified)'

khǎw mǎj-dǎj-sýy nǎŋ-sýy sǎg-lêm diau .
'He didn't buy (so much as) a single book.'

phoo deen paŋ-dâj sǎg-hâa naathii ,
'After he had been walking along for perhaps five minutes...'

Two /sǎg/-class prepositions in sequence are not uncommon. The class consists of pairs of semantic opposites which limit the actual possibilities - for example, members of groups 1-2, 3-4, 5-8, and 9-10 exclude each other internally; /keən/ is followed only by /tâŋ/ and /phiaŋ/ only by /sǎg/. Examples of actual combinations follow. The immediate constituents are always A/BC.

ìig pramaan sîb khon .
'Approximately ten more people.'

thỹŋ kÿab-sii chûa-mooŋ .
'Nearly four whole hours.'

keən tâŋ hâa-róoŋ bàad .
'Even more than five hundred baht.'

phiaŋ sǎg-sǒoŋ méđ .

'Only about two meters.'

kyàb tâŋ sǒoŋ-róoŋ méđ .

'Almost as much as two hundred meters.'

4.2.6. Miscellaneous Prepositions

1. /hâj/ or /hǎj/ and /aw/

These two prepositions, which as prepositions are members of the /dooj/ class, each have homonyms belonging to several other form-classes. The two are listed here together because they share a number of constructions and have a common meaning: 'transfer of possession or instrumentality.' The constructions are:

1. Post-verbal phrase

/hâj/ 'to or for someone, having an intentional effect on something'

/aw/ 'to or at something, having an unintentional effect on something'

jÿyn hâj phanáŋ-ŋaan .

'Hand it to the clerk.'

mæew takhuj aw-sÿa .

'The cat sharpened its claws on the mat.'

sâaŋ thamnób hâj-náam thûam .

'Built a dam for flooding.'

('Built a dam to make it flood.')

/aw/ is very common after verbs of holding and grasping:

jìb aw-pàg-kaa .

'Pick up the pen.'

fǒn tòg aw-náam thûam .

'It rained and flooding resulted.'

('The rain made it flood.')

2) Pre-verbal phrase

/hâj/ 'with the (human or animate) agency of'

/aw/ 'with the (inanimate) instrument of'

mêe-khrua hâj-dèg tàđ nÿa pen-chín .

'The cook has the child cut the meat into slices.'

mêε-khrua aw-mîld tàd nýa pen-chín .

'The cook uses a knife to cut the meat into slices.'

Apart from the order of the prepositional phrase (before the verb), these constructions correlate with those of /dooj/-class prepositions. Compare the following:

aw-máaj tham .	'Make it with wood.'
tham dûaj-máaj .	'Make it with wood.'
aw ród-jon paj .	'Go by car.'
paj dooj ród-jon .	'Go by car.'

3. As /wáj/-class postpositions (4.4.1.)

Homonyms of the two prepositions occur unstressed after verbal phrases without any object. Like a few members of the /dooj/-class (2,18, 26), this is a case of substitution for the typical prepositional phrase introduced by that member. But since /hâj/ and /aw/ as postpositions occur in mixed order with members of the /wáj/-class, they are assigned to this class rather than to the /eej/-class, the members of which they always precede. As a postposition, /hâj/ never has the form /hãj/.

/hâj/ 'to or for someone else'

/aw/ 'for oneself, for itself'

kèb dòog-máaj: hâj .

'Pick flowers for them'

kèb dòog-máaj: aw .

'Pick flowers for themselves'

khãw cajjym hâj: ìig .

'He's going to lend it (to others) as well.'

khãw mǎj-dǎj-bòog phǒm † phǒm daw: aw eej . .

'He didn't tell me. I guessed it for myself.'

In association with the plural pronoun /kan/, it is important to distinguish whether /hâj/ and /aw/ occur as prepositions or postpositions.

kèb hâj-kan . 'They pick them for each other.'

kèb: kan hâj . 'They pick them for others.'

kèb aw-kan . 'They pick them for themselves (as a group).'

kèb: kan aw . 'They pick them for themselves (as individuals).'

4. As conjunctions

Both /hâj/ and /aw/ occur before subject-predicate constructions, as conjunctions of the /sâyŋ/-class (4.3.3.), with the common meaning 'change of subject.' In many cases this is an extension of their prepositional use in post-verbal phrases, like the occurrences of /dooj/-class prepositions as /thâa/-class conjunctions (4.3.2.).

/hâj/ 'so that, which is supposed to'

/aw/ 'so that, which accidentally'

khăw aw lûug-boon , khwâaŋ hâj khoom-tâŋ tòg .

'He took the ball and threw it at the lamp to make it fall.'

('so that the lamp would fall.')

khăw aw lûug-boon , khwâaŋ aw khoom-tâŋ tòg .

'He threw the ball and it knocked down the lamp.'

('in such a way that the lamp fell.')

In both examples, the first /aw/ is a preposition (see 4.2.6.1.2. above): 'he threw with the ball,' though /khwâaŋ/ is also transitive.

A similar use, also common to /dooj/-class prepositions, is occurrence before adjectives:

tii man hăj-rêŋ-rêŋ: nă .

'Beat it hard, will you?'

man tii chăŋ aw-rêŋ-rêŋ .

'It hit me hard.'

5. As Main Verbs

Like /wáj/-class postpositions, /hâj/ and /aw/ occur, stressed, as primary verbs. In the examples below, the main verb is underlined.

/hâj/	'to give'
/aw/	'to take, to choose'
<u>hâj</u> sataaŋ: paj	'to give money away'
(<u>dâj</u> sataaŋ: maa	'to receive money')
<u>aw</u> sataaŋ: paj	'to take the money away'
<u>aw</u> sataaŋ: maa	'to bring the money'
maa- <u>hâj</u> sataaŋ	'to come and give money'
paj- <u>aw</u> sataaŋ	'to go get money'
<u>aw</u> maa-hâj	'to bring for someone'

<u>hâj</u> pa j- <u>aw</u>	'to have someone go get'
aw pa j- <u>hâj</u>	'to take to someone'
<u>hâj</u> maa- <u>aw</u>	'to have someone come get'
<u>hâj</u> sataaŋ: aw-wá j	'to give money for a future purpose'
<u>aw</u> sataaŋ: wá j-hâ j	'to keep money on hand for someone'

2. /tèɛ/ or /tè/ and /con/

These prepositions, of opposite meaning, share some, but not all constructions with each other. Basically they are both members of the /càag/ class (4.2.2, numbers 2 and 4, respectively), but both occur in compound prepositions of the /dooj/ class (4.2.3.5.8,10,12) and in other compound lexemes. Besides their basic meanings, /tèɛ/ 'starting from' and /con/ 'up to' have quantity-related meanings which are the exact equivalents of two /sãg/-class (4.2.5.) prepositions, /sãg/ 'as little as' and /tân/ 'as much as,' respectively. These occur only in numeral phrases; /tèɛ/ and /con/ replace them elsewhere. Following are some examples of these other constructions. In the first two cases, only one of the pair of prepositions occurs, and the constructions are mirror images of each other.

- 1) Between a verb and its object: /tèɛ/ 'only'
- | | |
|----------------------|----------------------------------|
| kin tèɛ nýa-mũu | 'eats only pork' |
| aw tè-kin | 'wants only to eat' |
| mii tè-nóoj | 'there are only a few' |
| jùu tèɛ naj-raŋ | 'stays only in the nest' |
| kin nýa-mũu tè-nóoj | 'eats only a little meat' |
| chôob tè-jùu naj-raŋ | 'likes only to stay in the nest' |

In this construction, /tèɛ/ occurs before all types of objects, including substantives, predicatives, expressions, and phrases. It is characteristically echoed with /thâw-nán/ at the end of its phrase, or at the end of the clause.

- 2) Between a verb and a completive verb or adjective: /con/ 'finally, all the way to'
- | | |
|----------------------|---------------------------|
| hãa con-dâ j | 'finally found' |
| hãa con-thûa | 'looked everywhere' |
| wâa j-náam con-mýa j | 'swam until exhausted' |
| khwâaŋ con-dâ j | 'finally hit by throwing' |

In all such constructions, the first constituent is a transitive verb and the second an adjective or completive verb. In similar predications involving a substantive as first constituent, the conjunction /cɤŋ/ (4.3.4.3.) is used instead of /con/:

phǒm cɤŋ-paj . 'I finally went'
 sǐi-khǎaw thỹŋ-cadii . 'Only green is good.'

3) As conjunctions, the two items still contrast sharply:

/tèɛ/ 'but' (/dǎaw/ class, 4.3.1.)
 /con/ 'until, although' (/thâa/ class, 4.3.2.)

chǎn bòog léɛw: wâa , chǎn mâj-chôob sǐi-khǎaw , tèɛ
 khǎw jaŋ-khỹyn sýy maa-iig con-dâj .

'I had told him that I didn't like green, but he still ended up buying green again anyway.'

con chǎn bòog léɛw: wâa , chǎn mâj-chôob sǐi-khǎaw , khǎw
 kǎ-jan khỹyn sýy maa-iig con-dâj .

'Although I had told him I didn't like green, he still ended up buying green again anyway.'

khǎw dâj-ráb kaan-rág-sǎa jàaŋ-dii , con-phón khèed an-taraaj,
 léɛw .

'He received excellent care until he was past the dangerous stage.'

khǎw dâj-ráb kaan-rág-sǎa jàaŋ-dii , tèɛ naj rooŋ-phajaa-baan:
 thǎw-nán .

'He received excellent care, but only in the hospital.'

3. /ka-/ and /ca-/

Each of these two prepositions occurs in close juncture with the other constituent of its phrase (or with the first syllable of the constituent if it is polysyllabic). They are the only prepositions which have no stressed forms in conversational style, although each is substituted for by stressed forms in citation and in formal style: /ka-/ is replaced by /kàb/ or /kèɛ/, and /ca-/ by /cà/.

- 1) /ka-/ occurs exclusively before substantive expressions: nouns, pronouns, demonstratives, numerals (but not classifiers), and phrases of all these types. Its meaning is 'in relation to,' and it frequently follows other prepositions and a few verbs and adjectives. It also has a covert relationship with the pronoun /kan/ 'in relation to each other, as a group,' which can replace most /ka-/ phrases. Since /ka-/ follows all other prepositions, its occurrence alone (without other prepositions) is interpreted as an instance of a /càag/-class preposition. As such, it can replace /kèe/ and /kàb/ in all their uses (see examples under 4.2.2.9, 10.).

Examples:

paj kakhun	'go with you'	paj: kan	'go together'
thÿŋ kasanãam	'up to the field'	thÿŋ: kan	'meeting'
tòc kathěew	'in extension of the row'	tòc: kan	'in line'
troŋ kana-lĩkaa	'right with the clock'	troŋ: kan	'in agreement'
jàaŋ kakhãw	'like him'		
mÿan kakhãw	'like him'	mÿan: kan	'like each other'
dûaj kaphôm	'with me'	dûaj: kan	'together'
hãj kaphôm	'to me'	hãj: kan	'reciprocally'
troŋ-khãam kabãan	'opposite the house'	troŋ-khãam: kan	'opposite each other'
klãj kabãan	'near the house'	klãj: kan	'near together'
khiaŋ kabãan	'next to the house'	khiaŋ: kan	'next to each other'
thãw kasõcŋ	'equivalent to two'	thãw: kan	'to the same degree'
thùug kakhãw	'in harmony with them'	thùug: kan	'in harmony'
phid kakhãw	'different from them'	phid: kan	'different'
kìaw kaŋaan	'concerned with work'	kìaw: kan	'related'
phrõom kakhruu	'at the same time as the teachers'	phrõom: kan	'simultaneous'
khláaj kakhruu	'resembling teachers'	khláaj: kan	'similar'

- 2) /ca-/ occurs before predicative expressions, especially before verbs, adjectives, modals (other than /mág/-class) and some modal verbs and their phrases, and is also common before enumerations and equational predicates. It is extremely common after /mág/-class modals (4.1.2.) and some modal verbs (3.3.1.1,5-9). Its meaning is 'hypothetical situation or putative action,' and it is used both for future states and for unreal or reconstructed present-past states. Since the order of /ca-/ with respect to modals and modal verbs is entirely fixed, the occurrence of /ca-/ without modal elements present is best interpreted as an instance of a special bound modal (belonging to a class of one), /ca-/. (see 4.1.4.8.)

Phrases introduced by /ca-/ cannot be replaced by any single lexeme (as can /ka-/-phrases), but it is interesting to note that /ca-/ and the sentence particle /thè/ 'Let's, why not' (4.5.1.8.) seem to exclude each other semantically, although their positions in the clause are quite different.

Examples:

- | | |
|--|--|
| khăw capa _J -dûa _J . | 'He's going to go along.' |
| khăw capa _J -dâ _J jâaŋ-ra _J . | 'How could he go (have gone)?' |
| dïaw , khăw capa _J . | 'He's going soon.' |
| (/pa _J / is a verb.) | |
| khăw catôŋ pa _J . | 'He'll have to go.' |
| khăw jâag capa _J -dûa _J . | 'He wants to go along.' |
| khăw cakhœ _J pa _J mÿa-ra _J †. | 'When would he ever have gone?' |
| (/tôŋ/, /jâag/, and /khœ _J / are modal verbs.) | |
| khăw àad capa _J kô-dâ _J . | 'He might even go.' |
| khăw khoŋ capa _J : jùu-léew . | 'He must have gone already.' |
| khăw kamlaŋ capa _J : jùu-léew . | 'He's about to go already.' |
| (/àad/, /khoŋ/, and /kamlaŋ/ are /mág/-class modals.) | |
| khăw camâ _J -pa _J : lamãŋ . | 'Maybe he's not going.' |
| khăw cakhyÿn pa _J thama _J . | 'Why would he be going in spite
of everything?' |

(/mâj/ and /khÿyn/ represent their own classes of modals.)

nâŋ thîi-nîi casadùag: kwàa .

'Sitting here would be more comfortable.'

khÿn ród-mee cacháa: paj-nòoj .

'Taking the bus would be a little too slow.'

(/sadùag/ and /cháa/ are adjectives.)

ìig háa-nathii casòoj moonj .

'In five minutes it'll be two o'clock.'

(It's five to two.)'

khăw cakháa-hàg dâj jâaŋ-raj :

'How could he get a broken leg?'

(/sòoj moonj/ is an enumeration and /khăa-hàg/ is an equational predicate.)

4. /kwàa/, /khòoj/, and /hèej/

These three prepositions are members of the /càag/ class (4.2.2). which commonly occur in rather special environments, and also have homonyms which belong to special classes. They occur exclusively before substantive expressions and, in the definitive /càag/-class context, before /naj/-class prepositions.

- 1) /kwàa/ or /kwa/ 'more than' is almost entirely restricted to occurrence after adjectives and adjective phrases. Its homonym, /kwàa/ 'more,' is a /nâg/-class postposition (4.4.2.) which substitutes for all /kwàa/-phrases.

Examples:

róon kwa-naj-bâan	'hotter than in the house'
róon kwàa	'hotter'
jaŋ cháa kwàa-phôm: ìig	'even slower than me'
jaŋ cháa kwà-ìig	'even slower'
jâj kwa-dæm	'bigger than before'
jâj kwàa	'bigger'
dii kwa-phÿan	'better than the others'
dii kwàa	'better'

- 2) /khòoj/ or /khõj/ and /hèej/ or /hèj/ 'of, belonging to' as prepositions are almost entirely restricted to occurrence before substantive expressions, although a few adjectives can

have a /khǒŋ/-phrase modifying them (see last examples in section). The substantive following /khǒŋ/ normally has person, animal, or small object as referent, while that following /hèŋ/ has a large object, place, or abstraction as referent.

Phrases introduced by /khǒŋ/ and /hèŋ/ commonly modify substantives (usually nouns), but if the head-noun is missing the phrase still operates syntactically as a substantive, and can fill the topic, subject, object, or complement position. In fact, since one of the meanings of the construction 'head noun H plus modifier noun M' is already 'the H of M,' the prepositions /khǒŋ/ and /hèŋ/ more often mean 'that of' than simply 'of' - i.e. they are more frequent when the head noun is missing.

Examples:

nǎŋ-sǎy khǒŋ-phǒm	'My book (book of me)'
nǎŋ-sǎy phǒm	'My book'
khǒŋ-phǒm	'Mine (that of me)'
sanǎam hèŋ-châad	'National Stadium (stadium of nation)'
phleeŋ châad	'national anthem'
hèŋ-châad	'the nation's'

Both prepositions have homonyms which are nouns: /khǒŋ/ 'thing' and /hèŋ/ 'place.' Neither noun, by itself, substitutes for the corresponding type of prepositional phrase, but as normal-stressed head nouns with modifiers both occur in direct semantic contrast with the homonymous (weak-stressed) preposition plus its complement. Compare the following:

khǎw hâj khǒŋ phǒm: paj .	'They gave my things away.' (Noun /khǒŋ/)
khǎw hâj khǒŋ-phǒm: paj .	'They gave mine away.' (Preposition /khǒŋ/)

Where indirect objects are involved, there is an important contrast between /kèε/ 'to, for' and /khǒŋ/ 'of,' the head noun-modifier noun construction being ambiguous in this case. Examples:

khǎw hâj ŋen phǒm: paj .	'They gave my money away.' <u>or</u> 'They gave the money away to me.'
khǎw hâj ŋen khǒŋ-phǒm: paj .	'They gave my money away.'
khǎw hâj ŋen kè-phǒm: paj .	'They gave the money away to me.'

Additional examples of all types:

khǒɔŋ-phǒm jùu nîi .	'Mine is here.'
khǒɔ jɣym khǒɔŋ-khun .	'Lend me yours.'
kɔɔŋ-tháb hèn prathêed-thaj jàj kwàa .	'The army of Thailand is larger.'
hèɛŋ prathêed-thaj jàj kwàa .	'Thailand's is larger.'
an-nǎj khǒɔŋ khǎw .	'Which one is his?'
khǒɔŋ khǒɔŋ-khǎw hǎaj: paj-mòd .	'His things all disappeared.'
phÿan khǒɔŋ phÿan-phǒm .	'A friend of a friend of mine.'
thùug khǒɔŋ khǎw .	'He is right.' (Lit. 'right of him.' /thùug/ is an adjective.)

/khǒɔŋ/ and /hèɛŋ/ follow /kwàa/ when they introduce a non-modifying phrase; otherwise the three prepositions exclude each other.

dii kwàa khǒɔŋ-khun .	'It's better than yours.'
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4.3. Conjunctions

A conjunction is any bound lexeme which occurs as a prior constituent in a syntactic construction which has a whole predication as co-constituent. Just as modals (4.1.) introduce predicative expressions, and prepositions (4.2.) introduce substantive expressions, conjunctions introduce entire predications without being able to substitute for them - i.e. the construction 'conjunction plus predication' is exocentric. There is some overlap between the memberships of the preposition and conjunction classes, involving especially the /thâa/ sub-class (4.3.2.). One kind of conjunction (/cɣŋ/ class, 4.3.4.) actually follows the subject of its predication, rather than preceding it, but this is a clear case of discontinuous order, since the immediate constituent analysis is the same as in the case of other conjunctions.

Except for the open /thâa/ sub-class (4.3.2.), the class of conjunctions is small and closed. Many of its members, however, are among the most frequent lexemes in the language.

4.3.1. /dǎaw/ Class

The class consists of conjunctions which occur in absolute initial position (coming even before /baŋ-æen/ and /thamaj/-class complementives, 3.2.2.) in clauses which 1) come first in a series of clauses, and 2) are in open clause juncture (1.2.8. end). The second stipulation is necessary

to distinguish /dǎaw/- conjunctions from /thâa/- and /sŷŋ/- conjunctions (4.3.2, 3.), which are otherwise identical in syntactic function. The class meaning is 'temporal or logical correlation with preceding message (which may be a clause, sentence, utterance by another speaker, or non-verbal behavior).' Clauses introduced by /dǎaw/-class conjunctions, therefore, may occur in any part of an utterance. The conjunction itself is frequently separated from the rest of its clause by phrase boundary.

The class is small and closed, consisting only of the following eight members, plus two discontinuous lexemes which can also be classified as modals (4.1.4.3,4.) Other forms fitting the definition but not recorded here are variants of one of the members. All members, in at least one of their forms, occur as members of other classes.

1. /dǎaw/ and /pradiǎaw/ 'in a moment, soon, (be careful) or else, otherwise'
 pradǎaw , khǎw khonj camaa . ɾoo ìig-sǎg-khrûu , dâj: mǎj .
 'He's sure to be here soon. Can you wait a little longer?'
 dǎaw , chǎn capaj-aw maa-hâj .
 'I'll go get it for you in a moment.'
 jàa wŷŋ rew: nág ↑ dǎaw hòg: mòd .
 'Don't run so fast, or you'll spill it all.'

2. /léew/ and /léw-kôo/ 'then, after that, and'
or /lé/ and /lé-kôo/ 'and, then'
 léew phôm capaj sýy khǎonj . khun cakláb bâan: rŷ-ŋaj .
 'Then I'm going shopping. Are you going to go home, or what?'
 léw-kôo laa wŷŋ khâw-paj raj-pàa .
 'And then the donkey ran into the forest.'
 phôm carian nǎŋ-sýy , lé faj phèen-sǎŋ: sàg-nòoj dūaj .
 'I'm going to study, and listen to some records, too.'

3. /rŷy/ or /rŷ/ and /rŷ-wâa/ 'or, alternatively; if not, then'
 rŷ-wâa , tham janjii dui: mǎj . mǎj-sǎa welaa mǎag .
 'Or shall we do it this way? It won't take much time.'
 phôm carian nǎŋ-sýy , rŷ faj phèen-sǎŋ sàg-nòoj kǎ-dâj .
 'I'm going to study, or maybe listen to some music.'
 rŷy hâj khǎw kláb paj-kòon dui kwàa: mǎŋ .
 'Or perhaps we'd better let him go back first.'

4. /khyy/ and /khy-wâa/ and /kô-khyy/ 'or in other words, that is to say'
- khyy , khăw pen nág-rian: nî khráb . khăw mǎj-dǎj-pen khruu .
 '(What I meant to say was) he's a student, you see. He's not a teacher.'
- khyy raw tôŋ-jùu naj-hôŋ talòod-welaa .
 'In other words, we have to stay in the room the whole time.'
- khăw pen sèed-thǎi . khy-wâa , khăw pen khon ruaŋ mâag. .
 'He's a rich man - that is to say, he's very wealthy.'
5. /tèe/ or /te/ and /te-wâa/ and /te-kôo/ 'but, on the other hand'
- te-wâa , khăw pen nág-rian: nî khráb . khăw mǎj-dǎj-pen khruu .
 'But he's a student, you see. He's not a teacher.'
- te-kôo phôm tôŋ klàb bâan dǎaw-níi: eeŋ .
 'But I have to go home right away.'
- khăw pen sèed-thǎi , kǎ-cíŋ: jùu † tèe pen khon caŋ-díi: mǎn-kan .
 'It's true that he's a rich man, but on the other hand he's good-hearted.'
6. /kôo/ or /kǎ/ 'Well, why, don't you know that' (Often followed by sentence particle /nîi/.)
- kôo khăw pen nág-rian: nî khráb † . khăw mǎj-dǎj-pen khruu † .
 'Why, he's a student! He's not a teacher!'
- kôo phôm khîi-kiad: thăw-nán nîi .
 'Well, I'm just lazy, that's all.'
- tham jaŋŋíi , kǎ phôm mǎj-wâa araŋ .
 'If (you want to) do it this way, well, I don't mind a bit.'
7. /lœeŋ/ or /ləeŋ/ 'then, that being the case, so'
- lœeŋ khun tôŋ klàb bâan dǎaw-níi: eeŋ rǎy .
 'In that case you have to go home right away, do you?'
- lœeŋ phôm capaŋ sýy khǎoŋ . khun cakláb bâan: rǎy-ŋaŋ .
 'So I'm going shopping. Are you going home, or what?'
8. /con/ 'by this time, it's come to the point that'
- con phôm mǎj-rúu catham-jaŋaŋ díi .
 'It's come to the point that I don't know what to do.'

Internal order of the class is complicated by the fact that the sixth and seventh members, /kôo/ and /ləej/, have homonyms which belong to the /cyŋ/-class (a class of conjunctions which follow the subject, 4.3.4.). In clauses which have no subject, the /kôo/ is ambiguous, unless it is followed by /nîl/ and thus marked as belonging to the /ďiaw/-class. Examples:

kô-dii: mÿan-kan khráb .
 'Well, that would be fine.' (/ďiaw/-class)
 'That, too, would be fine.' (/cyŋ/-class)

ləj hǎaj paj-mòd .
 'So it all disappeared.' (/ďiaw/-class)
 'As might be expected, it all disappeared.' (/cyŋ/-class)

Members of sets 1-2, 3-4, and 5-8 exclude each other semantically, with the combination /kô-ləej/ apparently occurring only when both 6 and 7 are members of the /cyŋ/-class. The internal order is 5-6, 3-4, 1-2; 7-8 are not known to occur in combination, cases of 6-7 following 1-2 or 3-4 being interpreted as their /cyŋ/-class homonyms. Examples:

kô₆ , ďiaw fôn tòg₁ .
 'Well, it's going to rain in a moment.'

tèè₅ , khyy phôm pen samaa-chíg₄ .
 'But, you see, I'm a member.'

khyy₄ , ďiaw hòg: mòd₁ .
 'In other words, otherwise it'll spill.'

l'éew₂ , ləej klàb bâan .
 'Then, as might be expected, he went home.'

ďiaw₁ , kô-hǎaj paj-mòd .
 'In a moment it will all disappear, too.'

In the last two examples, /ləej/ and /kô-/ are members of the /cyŋ/-class.

4.3.2. /thâa/ Class

The class consists of conjunctions which occur in absolute initial position in clauses which 1) come first in a series of clauses, 2) are in close clause juncture, and 3) function syntactically as complementives (not nouns). The class meaning is 'temporal or logical condition on another clause (which is usually the one immediately following, less often the one preceding),' and English equivalents of the members are often subordinate conjunctions. Like /thamaj/-class complementives (3.2.2.3.), for which they freely substitute, clauses introduced by /thâa/-class conjunctions are reversible with respect to their head constituents; the only difference in meaning is a slight change in emphasis (see example under 1. /thâa/ itself).

When the clause introduced by the /thâa/-class conjunction precedes the head-clause, the conjunction itself may follow a /dǎaw/-class (4.3.1.) conjunction (e.g. /têe thâa.../ 'But if...'). Otherwise, /thâa/-class conjunctions always come first in their clauses (See first two examples under 1. /thâa/).

The class is fairly large and probably open, since it includes many homonyms of /dooj/- class prepositions, an open class (4.2.3.). No member belongs discretely to the /thâa/ class, with the exception of morphologically complex variants such as 2. /thǎŋ-thǎŋ-thîi/ and /thǎŋ-měe-wâa/. For example, 1. /thâa/ itself has a homonym which is a /mág/-class modal (4.1.2.). The items listed below are the most common members, and a few representative /dooj/-preposition types have also been included.

1. /thâa/ 'if'

/hàag/ and /thâa-hàag/ and /thâa-hàag-wâa/ 'if (on the contrary),
if (unexpectedly), if only'

/phya/ and /thâa-phya/ and /thâa-phya-wâa/ 'if, in case'

têe thâa khun mâj-paj , phǒm capaj-dâj jâaŋ-raj .

'But if you don't go, how can I go?'

têe phǒm capaj-dâj jâaŋ-raj † thâa khun mâj-paj .

'But how can I go, if you don't go?'

thâa-hàag mii rôd , phǒm kê-capaj dâj .

'If only I had a car, I could go.'

thâa-phya phǒm mii rôd , phǒm kê-capaj dâj .

'If I have a car, I'll be able to go.'

2. /thỹŋ/ or /thỹŋ/ and /thỹŋ-hàag/ 'even if, although'
 /thỹŋ-měe-wâa/ and m'een-wâa/ 'even if it should come to the point
 that'
 /thãŋ-thãŋ-thiı/ and /con/ 'although it has come to the point that'

thỹŋ khãw capa j , phõm k'õ-mãj-pa j : m'yan-kan .

'Even if he goes, I'm not going.'

thỹŋ chãn camãj-chõob khãw , chãn k'õ-phũud diı kakhãw .

'Although I don't like him, I say nice things of him.'

thỹŋ-měe-wâa phõm camıı r'od , phõm k'õ-mãj-pa j .

'Even if I had a car, I wouldn't go.'

thãŋ-thãŋ-thiı f'õn t'og , khãw k'õ-jaŋ òog pa j-thiaw : iıg .

'Although it was raining, he went out anyway.'

3. /m'ya/ 'when'
 /t'õ-m'ya/ 'only when, only if'
 /na j-m'ya/ 'at a time when'

m'ya phõm mıı r'od , phõm k'õ-capa j dã j .

'When I have a car, I'll be able to go.'

phõm kh'ee j pa j b'õj-b'õj , m'ya phõm mıı r'od .

'I went often when I had a car.'

khãw b'õog wãa , khãw capa j t'õ-m'ya phõm pa j .

'He said he would go only if I went.'

thamma j khun òog pa j-khãaŋ-n'õog , na j-m'ya f'õn kamlaŋ t'og : juu .

'Why are you going out (at a time) when it's raining?'

4. /wee-laa/ and /na j-welaa/ 'when, while'
 /rãwãaŋ/ and /na j-rãwãaŋ/ 'while'

wee-laa khãw pen nãg-riãn , khãw kh'ee j pa j b'õj-b'õj .

'While he was a student he went often.'

d'eg-d'eg pa j-d'ed d'õog-mãa j , na j-rãwãaŋ khon-tham-sũan mãj-juu .

'Children go and pick flowers while the gardener is not there.'

5. /k'õon/ and /k'õon-thiı/ and /m'ya-k'õon/ 'before'

k'õon r'od phõm s'ia , phõm kh'ee j pa j b'õj-b'õj .

'Before my care broke down, I used to go often.'

khun khuan carian năŋ-sŷy: sàg-nòc , kòon-thîi cakhâw noon .
'You ought to study a little, before going to bed.'

6. /phoo/ 'as soon as, by the time that'

phoo raw paj-thŷŋ thîi-nân , raw ca-àab-náam dâj .
'As soon as we get there, we'll be able to bathe.'
phoo khăw dăj-jin jaŋán , khăw tŷyn than-thîi .
'The moment he heard that, he woke up.'

7. /kwàa/ and /con-kwàa/ 'until such time as, by the time that'
Clause usually has no subject, and predicate is preceded by
/ca-/'

kwàa capaj-thŷŋ thîi-nân , kô-mŷyd: léew .
'By the time we get there, it'll be dark already.'
tham jaŋíi rŷaj: paj , con-kwàa cahăaj .
'Keep on doing this until it heals.'

8. /con/ and /con-thŷŋ/ and /con-krathân/ 'until, to the point that'

chăn wâaj-náam: sã , con mŷaj paj-mòd thăŋ-tua .
'I swam until I was completely worn out.'
khăw cháaj paj-jaŋíi con-krathân sataaŋ khăw mòd: paj-ləej .
'He kept on spending like this until all his money was used up.'

9. /lăŋ-càag/ 'after, later than the time that'
/tăŋ-tèe/ 'since, continuing from the time that'

lăŋ-càag ráb-prathan aahăan , phôm kèed pùad-thóoŋ: khŷn-maa .
'After eating, I got a stomach ache.'
tăŋ-tèe ráb-prathan aahăan: maa , phôm pùad-thóoŋ rŷaj .
'Ever since eating, I have had a stomach ache.'

10. /nôog-càag/ 'except that, unless'

Clause usually has no subject, and predicate is usually preceded
by /ca-/'
năg-rian kô-klàb bâan dâj: ləej , nôog-càag camii ŋaan phĩsèed
hăj-tham .
'The students can go right home, unless there is special work
to be done.'

11. /jàaŋ/ and /jàaŋ ka-/ 'like, as'
 /mỹan ka-/ 'as if'
 jàaŋ khun wâa , pen an-taraaj mâag .
 'As you say, it's very dangerous.'
 khăw mooŋ araj mâj-hěn , mỹan ka-taa bòod .
 'He can't see a thing, just as if he were blind.'
12. /dooj/ and /dûaj/ 'by, with, with the attendant circumstance that'
 Clause usually comes second and has no subject if /dooj/ occurs.
 khăw khàb ród dooj mâj-cháj myy: ləej .
 'He drives without using his hands at all.'
 dûaj khăw pen khon-khàb , raw mǎj-tôŋ klua: ləej .
 'With him as driver (inasmuch as he's the driver) we don't
 have anything to be afraid of.'
13. /phró/ and /phrõ-wâa/ and /nyañ-càag/ 'because, owing to the
 fact that'
 raw mǎj-tôŋ klua: ləej , phró khăw pen khon-khàb .
 'We don't have anything to be afraid of, because he's the
 driver.'
 nyañ-càag cam-nuan khruu jaŋ mâj-phoo , rooŋ-rian màj pèed
 màj-dâj pii-níi .
 'Owing to the fact that the number of teachers is still
 insufficient the new school can't open this year.'
 phõm paj màj-dâj , phrõ-wâa ród sĩa .
 'I can't go, because my car's broken.'
14. /phỳa/ 'in order to, for the purpose of'
 Clause usually has no subject, and predicate is usually preceded
 by /ca-/.
 khăw kèb ɲen wáj , phỳa casýy ród khan-màj .
 'He is saving money to buy a new car.'
 phỳa capen samaa-chíg : nǎn , khun tôŋ hǎa phũu-ráb-rooŋ sỏoŋ
 khon hǎj-dâj .
 'In order to become a member, you have to find two sponsors.'

Conjunctions of the /thâa/ class do not necessarily exclude each other semantically (cf. such English combinations as 'Although in order to save

money it may be necessary to cut corners...'). Examples of two members of the class in the same construction are extremely rare, however, except when the second member is actually a /dooj/-class preposition. No internal order has been established.

4.3.3. /ŝyŋ/ Class

The class consists of conjunctions which occur in absolute initial position in clauses which 1) come first in a series of clauses, 2) are in close clause juncture, and 3) function syntactically as substantives. A corollary of the last condition is that clauses associated with /ŝyŋ/-class members lack one of the typical substantive constituents - usually topic, subject, or object.

In addition to occurring in the definitive context, /ŝyŋ/- conjunctions even more frequently introduce the second of two clauses. In such cases the clause so introduced may be either a substantive constituent belonging to the first clause as a whole, or a modifier of a substantive constituent actually present in the first clause. The class meaning, then, is 'substantive constituent follows, either modifier of something in preceding clause, or itself a constituent of an adjacent clause.' English equivalents are relative pronouns such as 'who, which, what, that.'

When the clause introduced by a /ŝyŋ/-class conjunction comes first, it is very frequently closed with /nãŋ/ or /nĩi/, and no matter which member of the class occurs, the English equivalent is nearly always '(the fact) . that...' When the /ŝyŋ/- introduced clause comes second, the echoing /nãŋ/ or /nĩi/ is less common, and the selection of a particular conjunction is more significant.

The /ŝyŋ/ class is small and closed, the following being the only important members. Three members of the class, 1. /ŝyŋ/ itself, 6./kaan-thĩi/, and 8. /an/, are associated with formal literary style, but also sometimes occur in colloquial speech.

1. /ŝyŋ/ or /ŝyŋ/ 'That which, such a one as, such ones as'
ŝyŋ khãw wãa: nãŋ , mãj-dãj khwaam .
'Things he says don't make sense.'
tòg loŋ-paj naŋ-khuu , ŝyŋ khãw khùd: wãj .
'It fell down into a ditch - one that had been dug.'
2. /thĩi/ or /thĩ/ and /thĩ-wãa/ 'That which, the one that, the ones
that'
(Restricts a modified element much more than /ŝyŋ/ does.)

thîi khăw tham: nîi , mǎj-dâj phôn .

'What he has done here is of no use.'

thĩ-wâa phôm duu-thùug: nǎn , mǎj-ciq ləəj .

'That I look down on them is simply not true.'

tòg loŋ-paj naj-khuu , thĩ khăw khùd: wáj .

'It fell down into the ditch that had been dug for it.'

khỏo thỏod: nǎ khráb , thîi phôm maa sǎaj: nág .

'Excuse me for coming so late.'

('Excuse me that I come so late.')

3. /wâa/ or /wǎ/ 'that, saying, thinking, or knowing that'
(introduces a quote.) /wâa/ is homonymous with a post-
position of the same meaning which occurs at the end
of clauses (4.4.4.4.).

wâa phôm duu-thùug: nǎn , mǎj-ciq: ləəj .

'To say that I look down on them is simply not true.'

chúaŋ bòog khăw đũaŋ: nǎ khráb , wǎ phôm camaa sǎaj: nòəj .

'Please tell him also that I'll be a little late.'

ichăn kổ-jarj mǎj-sâab nêe-noon , wǎ capen-paj-dâj: rỷy-mâj .

'I still don't know for sure whether it will be possible or not.'

4. /hâj/ or /hǎj/ 'so that, who should, which should, the
hypothetical situation that'

In commands and all types of hypothetical situations, and in
noun expressions involving unreal referents, /hâj/ is selected.
Especially, it replaces /sỷn/, /thîi/ and /wâa/, the first three
members of this class. (See also 4.2.6.1.4.)

Compare the following:

khăw casadεεŋ lakhoon , thîi thân lỷag: wáj .

'They will show the plays that you have selected.'

khăw casadεεŋ lakhoon , sỷn thân lỷag: wáj .

'They will show such plays as you have selected.'

khăw casadεεŋ lakhoon , hâj thân lỷag: wáj .

'They will show plays for you to select from'

(i.e. 'plays which you should select from')

phôm bòog wâa-khun paj duu: sĩ.

'I said, 'You go take a look.' (Direct quote)

phǒm bòog hâj-khun paj duu: sǐ .

'I said for you to go take a look.' (Indirect quote; you may not even have been present.)

phǒm bòog: khun wâa , paj duu: sǐ .

'I told you, 'Go take a look.' (Direct)

phǒm bòog khun hâj-paj-duu: sǐ .

'I told you to go take a look.' (Indirect, but you were present.)

Other examples of /hâj/.

hâj khǎw khâw-paj-kòon d11 kwàa .

'Better let him go in first.' ('His hypothetical entering first is better.')

chǎn capaj-aw phǒn-lǎmáaj tàn-tàan , hǎj khèeg ráb-prathaan: bân .

'I'll go get some assorted fruits for the guests to eat.'

In addition to these uses, /hâj/ is obligatory 1) where the subject of a prior clause is not the same as the subject of the dependent clause, but the new subject is not mentioned, and 2) before all adjectives in hypothetical predicates.

Compare the following:

1) aw nǎj-sǎy maa-duu: nòoj .

'Get the book and see.'

aw nǎj-sǎy maa hâj-duu: nòoj .

'Get the book (for someone else) to see.'

khraj lâw hǎj-faŋ: lâ .

'Who told (you) that? ('Who told (for you) to listen.')

2) phǒm cam dâj-d11 .

'I can remember it well.'

cam wáj hǎj-d11: nǎ ↑ .

'Remember it well, will you?'

ság phâa hâj-sa-àad: sǐ ↑ .

'Get the clothes clean!' ('Wash the clothes so that they are clean.')

khǎw khíd hâj-la-ìad mâag.

'He's trying to think it out in great detail.'

('He thinks so that it will be very detailed.')

5. /âaj/ or /âj/ and /âj-thîi/ 'that, this business of'
 /âaj/ most commonly before clauses with no subject. /âj-thîi/ is
 the colloquial equivalent of 6. /kaan-thîi/ in many cases.
 âaj capaj fóoŋ sǎan: nǐi , mâj-dâj phôn: ləej .
 'This business of taking it to court is absolutely useless.'
 âj-thîi khǎw tham bàab: nǎn , chǎn mâj-thỹy .
 'That he may have committed a sin, I don't hold against him.'
6. /kaan-thîi/ 'the fact that, the supposition that, that which,
 inasmuch as'
 kaan-thîi khǎw sòob tòg , phôm mâj pralàad-caj: ləej .
 'That he should have failed the examination doesn't surprise
 me at all.'
 kaan-thîi khǎw tham-dâj eej: nǎn , jàa paj-thôod: khǎw ləej .
 'Inasmuch as he was able to do it by himself, don't blame him
 so much.'
7. /sùan/ and sǎm-ràb/ or /sǎmràb/ 'As for the fact (or supposition)
 that'
 sùan paj-wád paj-waa: nǎn , mâj-khàad: sǎ sǎg-thîi .
 'As for going to the temples and that sort of thing, she never
 fails to.'
 sǎmràb khèŋ-khǎn: kan nǐi , phôm kǎ-mâj-rúu rỳaŋ .
 'As for their competing together, I know nothing about it.'
8. /an/ and /an-wâa/ 'one that, such that'
 The form /an/ substitutes for /thîi/, and the form /an-wâa/ for
 /wâa/ (when the /wâa/-clause comes first) in formal style.
 naj lôog an-tem paj-dúaj thúg: nǐi...
 'In this world which is full of misfortune...'
 an-wâa khǎw tham phid: nǎn , kǎ-cuŋ: jùu .
 '(To say) that he did wrong is true enough.'
9. /thâw-thîi/ or /thǎw-thîi/ and /taam/ and /taam-thîi/ 'insofar as,
 to the extent that, according to what'
 thǎw-thîi phôm sâab , khǎw sabaaŋ dîi .
 'As far as I know, he's well.'

phǒm phajaa-jam catham hǎj-mâag , thǎw-thîi catham dâj .

'I'm trying to do as much of it as can possibly be done.'

phǒm phajaa-jam catham taam-thîi khǎw sǎŋ: wáj .

'I'm trying to do it as he ordered.'

10. /chên/ or /chén/, /jàaŋ/, and /jàaŋ-chên/ 'such as, like' /chên/ is frequently followed by a complementive /pen-tôn/ at the end of its clause.

khǎw tham araj-araj phid: mòd , chên aw-lâw paj-hâj dèg kin: pen-tôn .

'She does everything wrong, like giving whisky to babies.'

khǎw casadeeŋ lakhoon , jaaŋ thân lÿag: wáj .

'They will show plays such as you have selected.'

(Compare first three examples under 4. /hâj/, and also see /jàaŋ/, /thâa/-class, 4.3.2.11.)

Internal order of the class is not fixed, but two /sÿŋ/-conjunctions do occur in the same clause:

kaan-thîi hâj-khǎw tham eeŋ: nǎn...

'The fact that he should be allowed to do it himself...'

sùan âaj paj-wád paj-waa: nǎn...

7 5

'As for this business of going to the temple...'

jàaŋ wâa thùug: nǎn...

10 3

'Such as is said to be correct...'

4.3.4. /cŷŋ/ Class

These conjunctions are the only ones which occur after the subjects or topics of their clauses. They come immediately after the subject and before all elements of the predicate, including all types of modals. Syntactically their clauses are exactly like clauses introduced by /dǎaw/-class conjunctions - i.e. they are independent clauses which can occur first in a series without being in close juncture. The class meaning is partially the same, also: 'temporal or logical correlation with preceding message, or establishment of time-sequence, expectedness, or unexpectedness of event.'

The class is closed, and extremely small, consisting of only four members and their variants. The first member, /kôo/, is easily the most

common lexeme in the entire language and is very difficult to translate in most of its contexts. All members except /cyn/ itself (which has a slightly literary flavor) have homonyms belonging to other classes.

1. /kôo/ or /kô/ or /kõ/ 'then, that being the case, in addition, similarly, at least' (The first form occurs under normal stress, the last two forms elsewhere.)

sèd léew , khǎw kô-paj noon .

'When it was finished, he went to bed.'

('Having finished, he then went to bed.')

thâa pen khruu , phôm kô-mǎj-wâa araj .

'If it's a teacher, then I don't mind.'

raw paj-duu nǎj kô-dâj: nî khráb .

'We could go to a movie, too, you know.'

('Our going to a movie is an additional possibility, here.')

phôm eej kô-mâj-rúu rýaŋ .

'I myself, at least, don't know anything about it.'

dǎaw sǎamii kôo carúu than .

'Pretty soon her husband will find out (too).'

paj , kô paj: sì .

'If we're going, let's go.'

Besides occurrence in the definitive context, /kôo/ has two other semantically important uses: 1) after an interrogative word of any class, it changes the interrogative meaning to 'indefinite,' and 2) repeated in parallel constructions, it means 'both... and...' or 'either... or...'

- 1) moonj araj kô-mâj-hěn .

'I can't see anything.' ('Whatever I look at, I can't see.')

thîi-nǎj kô-dii .

('Anywhere is all right.') 'Anywhere at all.'

- 2) paj kô-dâj , jùu kô-dâj .

'You can either go or stay.'

khruu kô-mii , nág-rian kô-mii .

'There are both teachers and students.'

2. /leej/ or /lej/ 'consequently, as might be expected, therefore'

mýa hěn wâa , phýan mâj-jùu , khǎw læej klàb bâan .

'When he saw his friend was not there, he (for that reason) went home.'

m11 mêeg lég-nóog: thâw-nán , phôm læəj māj-nêe caj: wǎ , fǒn
catòg rỹ-plàaw .

'There were only a few clouds, so I wasn't sure whether it
would rain or not.'

3. /cyŋ/ and /thỹŋ/ or /thỹŋ/ 'subsequently, only then, it comes to
the point that'

(The form /cyŋ/ is more formal than the other two.)

dyan nâa , thỹŋ cam11 ɲaan ìig-khráŋ: nỹŋ .

'There won't be another fair until next month.'

('Next month, only then, will there be another fair.')

roo ìig-sǎg-khrûu , léew cyŋ-khòj paj .

'Wait a moment longer, and (only) then go.'

mỹa hěn wâa , phỹan māj-jùu , khǎw thỹŋ klàb bâan .

'When he saw his friend was not there, he (after that) went
home.'

Another important use of /cyŋ/ is in clauses introduced by /thamaj/-class
complementives-see examples (3.2.2.3.).

4. /jaŋ/ 'still, even, continues to, goes so far as to.'

Frequently echoed by /jùu/ at end of verb expression, or /ìig/ at
end of whole clause.

khǎw jaŋ pen nág-rián: jùu .

'He is (or was) still a student.'

phôm jaŋ tôŋ-kaan casýy burìi: ìig .

'I still need to buy cigarettes also.'

khǎw jaŋ bòog: khun wâa , khǎw àad camâj-paj .

'They even told you they might not go.'

ród-faj jaŋ māj-bòog: ìig rỹy † .

'Isn't the train leaving yet?'

jaŋ mǎj-dǎj-paj .

'It hasn't gone yet.'

thǎŋ-thǎŋ-thîi hěn wâa , phỹan māj-jùu , khǎw kô-jaŋ klàb bâan: ìig.

'Although he saw that his friend was not there, he still (in
spite of that) went home.'

Internal order of the class is 1, 2-3, 4, but the combinations 13 and 34 are rare. Examples:

khăw kô-leej klàb bân .
1 2
'He then (consequently) went home.'

kô-jaŋ (see last example under /jaŋ/)
1 4
khăw lej jaŋ mâj rúu-càg kan .
'So they still don't know each other.'

4.4. Postpositions

A postposition is any bound lexeme that occurs as a latter constituent of an expression, predication, enumeration or phrase, such that the larger construction (prior constituent plus postposition) is less than an entire clause. The class of postpositions is thus in general contrast with that of sentence particles (4.5.), which together with their co-constituents comprise entire clauses, although there is some overlap between the two classes.

Like the bound lexeme classes which introduce constructions - modals (4.1.), prepositions (4.2.), and conjunctions (4.3.) - postpositions are sub-classified according to the nature of their co-constituent. The sub-classes are 1) /wáj/ class (verb modifiers), 2) /nág/ class (adjective modifiers), 3) /bâaŋ/ class (substantive and predication modifiers), and 4) enumerative postpositions, which modify or create enumerations. The constructions resulting from the first three types of postposition are endocentric, and from the last type, either endocentric or exocentric.

All postpositions characteristically have weak stress, and, like the sentence particles, frequently occur after the morpheme / : / in their phrases and clauses. The class meaning is 'restriction as to time, space, quantity, or degree of a free-lexeme concept' for the first three sub-classes, and 'inclusiveness, distribution, or cross-reference of an enumeration' for the fourth sub-class. Except for the /bâaŋ/-class, and to some extent the /nág/ class, the membership is extremely limited.

4.4.1. /wáj/ Class

These postpositions occur with weak stress immediately following and in construction with verb expressions. If the verb expression includes an object, the /wáj/-class member always follows the object; if the predicate includes a preposition, the /wáj/-class member either precedes or follows the

prepositional phrase. The members of the class are not negatable in any position, but all have homonyms which are verbs.

The class meaning is 'orientation of action with respect to space and time relationships,' and the forms together constitute a kind of aspectual system for the verb. The entire class consists of pairs of semantic opposites, but sets 1-4 and 7-10 have an even more complex internal relationship. Members of set 1-4 exclude each other entirely. Members 8 and 10 have identical allomorphs, but on the basis of greater frequency of /sĩa/ in meaning 8, and /sĩa/ in meaning 10, the patterning of opposition is maintained (7-8, 9-10).

The class is small and closed, consisting only of these ten members.

1. /khâw/ 'into an enclosed space, or closer to the center of interest'

man khwâaŋ lûug-boon khâw-paj-naŋ-hôn .

'He threw the ball into the room.'

deen khâw-maa klâj-klâj: nã .

'Walk right up close, will you?'

2. /òog/ 'out of an enclosed space or farther from the center of interest'

jàa wâaj-nâam òog-paj klaŋ-klaŋ: nã .

'Don't swim out too far, now.'

khâw wiŋ òog-maa-càag-hôn: phoo-dii .

'He came running out of the room just then.'

3. /khÿn/ 'upward, newly arrived on the scene'

khâw jib nãŋ-sÿy khÿn-maa .

'He lifted up the books.' (/jib/ 'pick up')

sĩaŋ pyyn-koo daŋ: khÿn .

'A pistol-shot rang out (suddenly).'

4. /loŋ/ 'downward, departing from the scene'

khâw phaa-kan-thiŋ koon-hĩn loŋ-paj naŋ-khuu .

'They were all dropping stones down into the pond.'

faŋ kamlaŋ dàb: loŋ .

'The fire is dying down.'

5. /paɲ/ 'away from the speaker, toward the future or an indefinite or irrelevant goal,' before prepositional phrase: 'toward a definite but distant goal, toward the future.'
- laa wîŋ khâw-paɲ-naɲ-pàa .
 'The donkey ran off into the forest (to get away).'
- khăw jâm naa: paɲ bâaŋ .
 '(One of the things) they (do is) trample the fields.'
- raw tôŋ khoɔɲ paɲ-ìŋ-naan: mãɲ .
 'Do we have to keep on waiting long?'
- tâŋ-tèe wan-nán: paɲ ...
 'From that day (in the future) onward...'
6. /maa/ 'toward the speaker, up to the present or toward a definite, relevant, nearby goal.'
- tâŋ-tèe wan-nán: maa...
 'From that day (in the past) onward...'
- raw khoɔɲ maa-naan léeew.
 'We have been waiting a long time already (the waiting may or may not be over).'
- paɲ nǎɲ: maa .
 'Where have you been?' (/paɲ nǎɲ/ 'Where are you going?')
- ŋen , thîi khăw dâaɲ: maa...
 'The money which he had gotten...'
- laa wîŋ khâw-maa-naɲ-pàa .
 'The donkey ran into the forest (toward us).'
- mỹa-waan-níi lyym sýy: maa .
 'I forgot to buy it yesterday.'
- cf. mỹa-waan-níi lyym sýy: paɲ .
 'I forgot to buy it yesterday.'
7. /wáj/ or /wáaɲ/ and /aw-wáj/ and /thîŋ-wáj/ 'removed from the scene but with future relevance, put aside temporarily for future reference, action deferred.'
- ichăn dèd dòog-máaɲ: aw-wáj , sàɲ cee-kan .
 'I'm picking flowers to put in a vase.'
- phôm còod ród: thîŋ-wáj , khâaŋ-nâa .
 'I have the car parked out front.'

- dichấn tâṅ-caj: wáj léew wâa , camaa-hăa khun .
 'I had already intended to come to see you.'
- cam wáaj hâj-dii: nă .
 'Remember it well, will you?'
- thiṅ s̄ya: wáj , thîi-nân: sí .
 'Leave the coat there (where you can get it).'
8. /s̄ia/ or /s̄ă/ 'removed from the scene permanently, with no future relevance'
- thiṅ s̄ya: s̄ia , thîi-nân: sí .
 'Leave the coat there (to get rid of it).'
- mêe mǎj-dǎj-paj nǎj: s̄ia .
 'Your mother hasn't gone anywhere (for good).'
9. /jùu/ 'remaining on the scene, unchanged, action continuing, temporary, without necessary future significance.'
- dichấn khoṅj: jùu , tâṅ-naan léew .
 'I am being kept waiting an awfully long time.'
- laa wîṅ khâw-paj-jùu naj-pàa .
 'The donkey had run into the forest (and was still there, if only temporarily).'
- caan waṅj jùu-bon-tó .
 'The dishes had been placed on the table (with what intent, we don't know).'
- khǎw kamlaj rian nǎṅ-s̄ȳy: jùu , naj-amee-rĩkaa .
 'He is studying in America (for the present, at least).'
- phǒm pen samaa-chíg jùu-léew .
 'I am already a member (as it happens).'
- ṅen thîi phǒm mii: jùu...
 'The money which I (happen to) have...'
10. /s̄ă/ or /s̄ia/ 'situation changed, action viewed as a unit, not continuing into the future'
- têe phǒm pen samaa-chíg s̄ă-léew .
 'But now I've become a member.'
- khǎw waṅj caan wáj s̄ă-naj-tûu .
 'She has (gone and) put the dishes away in the cupboard.'

kin: sǎ sɪɪ ↑ .

'Eat it up!' (/kin sɪɪ/ 'Eat!')

dichǎn khooj: sǎ , tâŋ-naan léew .

'I waited an awfully long time (the waiting is over now).'

Internal order of the class is 1-4, 5-6, 7-8, 9-10, with representatives from no more than three of the sets being found in a single construction.

Distribution of 1-4 with respect to 5-6 is complete:

- | | | |
|----|----------|---------------|
| 1. | khâw paj | 'going in' |
| | khâw maa | 'coming in' |
| 2. | òog paj | 'going out' |
| | òog maa | 'coming out' |
| 3. | khÿn paj | 'going up' |
| | khÿn maa | 'coming up' |
| 4. | loŋ paj | 'going down' |
| | loŋ maa | 'coming down' |

The remaining distribution is as follows:

- | | | |
|----|-----------------------------|---------------------------------------|
| 5. | paj sǎ (8) | 'gone away for good' |
| | paj wáj (7) | 'gone subject to recall' |
| | paj jùu (9) | 'gone to stay, incidentally' |
| | paj sǎ (10) | 'gone, significantly' |
| | paj wáj jùu | 'having gone there subject to recall' |
| | paj wáj sǎ | 'as of now, gone subject to recall' |
| 6. | (maa sǎ (8) does not occur) | |
| | maa wáj (7) | 'come subject to recall' |
| | maa jùu (9) | 'come to stay, incidentally' |
| | maa sǎ (10) | 'come, significantly' |
| | maa wáj sǎ | 'as of now, come subject to recall' |
| 7. | wáj jùu (9) | 'kept, incidentally' |
| | wáj sǎ (10) | 'kept, significantly' |

8-10. are terminal.

Additional examples:

kôon-hǐn tòg loŋ-paj-jùu naj-náam .
4 5 9

'The stone had fallen down into the water.'

kôon-hĩn tòg loŋ-paj-sǎ naj-náam .

4 5 10
'The stone fell down into the water.'

kôon-hĩn tòg loŋ-paj-naj-náam: sǎ .

4 5 8
'The stone fell down into the water (and was lost).'

phǒm tham dɪɪ maa-sǎ-mâag: léew ↑ .

6 10
'I've already done a lot of good!'

phǒm tham dɪɪ jùu-mâag: léew .

9
'I'm already doing a lot of good.'

dichǎn dèd dòog-máaj: maa-wáj , sàj cɛɛ-kan .

6 7
'I've picked some flowers to put in a vase.'

4.4.2. /nág/ Class

These postpositions occur with weak stress immediately after, and in construction with, adjectives. The class includes some members which are homonymous with /wáj/- class postpositions (5-8 below) but have quite different meanings, and some members which are homonymous with /bâaŋ/-class postpositions (13-15, 18) and have similar meanings. /nág/ itself occurs most commonly after negated adjectives, members 2-17 rarely so occur, and 18-19 are found in both types of construction. The class meaning is 'to a certain extent.' The class is open (and, in fact, seems to act as a magnet for slang innovations); the membership is quite large. The following list, however, includes the most frequent members.

1. /nág/ 'to such an extent, too, so'

thâa thee týn cháa: nág , thee kô-capaj mâj-than ród .

'If you get up so late, you'll never make the train.'

phǒm kheej paj , tɛɛ mâj-bòj: nág .

'I've been there, but not too often.'

2. /dɪɪ/ 'to a desirable degree, nice and...'

hòŋ-níɪ kwâaŋ: dɪɪ .

'This room is nice and spacious.'

léew lom jaŋ reeŋ: dɪɪ dúaŋ .

'And the wind is nice and strong, too.'

3. /thɨdiaw/ or /chiaw/ and /tem-thɨl/ 'quite, completely'
 khòob-khun , phǒm ìm: thɨdiaw (tem-thɨl) .
 'Thank you, I'm completely full.' (refusing food)
 wan-níi maa sǎ-cháa: chiaw † mua paj-jùu sǎ thɨl-nǎj † .
 'You're quite late today; where on earth have you been?'
 ród lên rew: tem-thɨl .
 'The car went at full speed.'
4. /kəen-paj/ and /paj/ 'too, excessively'
 hěn camâag: kəen-paj lamǎŋ .
 'Don't you think that's little too much?'
 chǎn tham mǎj-thùug: ləeŋ † phũud jaŋíi kô-wâa , cháa: paj-ìig .
 'I can't do anything right; even when I talk like this, you
 still say it's too slow.'
5. /òog/ and /òog-cataaj/ 'to an undesirably great extent.'
 nǎŋ-sǎy lêm-níi nǎa: òog-cataaj .
 'This book is terribly thick.'
 chǎn phũud cháa: òog jaŋíi léew † jaŋ faŋ mǎj-than: ìig rǎe .
 'I've already slowed down an awful lot as it is; can't you
 understand what I'm saying yet?'
6. /khâw/ 'closer to a desired goal or ultimate condition,
 progressively more'
 phoo thàaj rûub pen: khâw léew...
 'When you get a little better at taking pictures...'
 rew !khâw: sɨi † .
 'Hurry up! Faster!'
7. /khÿn/ 'more than before, in increasing fashion'
8. /loŋ/ 'more than before, in decreasing fashion'
 khǎw ùan: khÿn .
 'He's getting fatter.'
 khǎw kèe: loŋ .
 'He's getting older.'
 phũud rew: khÿn ìig-níd , dǎj: mǎj .
 'Can you speak a little faster?'

phũud cháa: loŋ ìig-níd , dâj: mãj .

'Can you speak a little slower?'

aakaan dıı: khÿn .

'His condition is improved.'

phoo sỏŋ-khraam khỏj-saŋỏb: loŋ ,

'When the fighting finally quieted down'

(Selection between these two items is to a large extent lexically conditioned, but /khÿn/ is by far the more common.)

9. /kwàa/ and /kẻen-kwàa/ 'more than something else of its kind, comparatively more'

tham jaŋıı dıı kwàa .

'It's better to do it this way.'

nảŋ-sỷ lẻm-nıı nả: kwàa .

'This book is thicker (than some other book).'

khảw jaŋ phũud cháa: kwàa .

'He speaks even more slowly (than someone else).'

10. /thıı-sủd/ or /thısủd/ and /kwa-phỷan/ 'more than all others of its kind, most, extremely'

rỏd khan-nıı lẻn rew: thıı-sủd .

'This car runs the fastest of all.'

tham jaŋỏn kỏ-dıı: thısủd .

'It would be best to do it that way.'

khon-nỏn phũud cháa: thısủd .

'That one speaks extremely slowly.'

nảŋ-sỷ lẻm-nıı nả kwa-phỷan .

'This book is thicker than the others.'

11. /thỏw-kan/ or /thỏw-thỏw: kan/ 'to the same degree, equally'

nỏg-rıan sỏŋ khon: nıı , phũud cháa: thỏw-kan .

'These two students both speak slowly.'

dın-sỏỏ sỏŋ thẻŋ: nıı , jaaw thỏw-thỏw: kan .

'These two pencils are equally long.'

12. /phoo/ and /phoo-chỏaaj/ 'to a satisfactory degree, enough'

kỏ khỏw khỏb rỏd rew: phoo-chỏaaj .

'Well, he drives fast enough.'

lɛɛw lom jaŋ rɛɛŋ: phoo dɯaŋ .

'And the wind was still sufficiently strong, too.'

13. /mâag/ (and many slang substitutes) 'very'
14. /níd-diaw/ 'very (restricted to small-scale concepts)'
15. /nòɔŋ/ 'a little, rather, somewhat'

khǎw khàb ród cháa: mâag .

'He drives very slowly.'

bâan jùu klaŋ: mâag .

'The house is very far away.'

bâan jùu klâŋ: níd-diaw .

'The house is very close.'

bâan jùu klaŋ: nòɔŋ .

'The house is rather far away.'

16. /lǎa-keen/ or /lǎkɛen/ and /tem-thii/ 'excessively in an undesirable sense, terribly'

ɯmɛɛ † wan-nii rón: lǎkɛen .

'My, it's awfully hot today.'

khǎw khàb ród rew: lǎa-keen .

'He drives terribly fast.'

chaaw-phýyn-myay sàan-mâag con: tem-thii .

'Most of the inhabitants are terribly poor.'

17. /caŋ/ and /ciŋ-ciŋ/ 'really'

nǎŋ lêeg cháa: caŋ .

'The movie is really slow letting out.'

phǎm chòɔb mâag: ciŋ-ciŋ .

'I really like it a lot.'

18. /thâw-raŋ/ or /thǎw-ràŋ/ 'how much, to any extent'

jàŋ: thâw-raŋ .

'How big is it?'

mâŋ-jàŋ: thǎw-ràŋ .

'It's not big at all.'

19. /leeŋ/ 'quite', after negative, 'not at all'

nâŋ thii-nii sabaaj: leeŋ .

'It's quite pleasant sitting here.'

phâa nîi mâj-dii: ləəj .

'This cloth is no good.'

Two /nâg/-class postpositions following a single adjective are not uncommon, and this is apparently also the maximum number of modifiers. From the sets 1-5, 6-8, 9-11, 12-15 and 16-19, only one member of each set may occur in such constructions. Internal order of the class works as follows:

From set 1-5, /kəən-paj/ and its alternant /paj/ are followed by 13-15, and 19; other members of this set are terminal.

Set 6-8 is followed by 9 and by 12-15 and 16-19.

From set 9-11, /kwàa/ is followed by 13-15 and 18-19; other members are terminal.

From set 12-15, /mâag/ is followed by 1 or 3 and 16-17; other members are terminal.

Set 16-19 is not followed by members of any other set.

Examples of double modification of adjectives by /nâg/-class members follow. In all cases but the last the immediate constituent analysis is AB/C.

rew khÿn: kwàa 7 9	'faster than ever'
rew khÿn: mâag 7 13	'much faster than before'
rew khÿn: thâw-raj 7 18	'how much faster than before'
rew kwàa: níd-diaw 9 14	'a little faster than the other'
rew kwàa: thâw-raj 9 18	'how much faster than the other'
rew mâag: chiaw 13 3	'definitely very fast'
rew mâag: caŋ 13 17	'really very fast'
rew: paj-nòəj 4 15	'a little too fast'

Constructions with members 6-8 as a constituent also occur frequently in parallel phrases:

khon maa khooj-ráb jùu-nêen: paj-mòd ,
ród tôn-lên cháa: khâw , cháa: khâw , thúg thi .

'There were so many people waiting for the bus it kept
having to slow up more and more.'

naa-líkkaa khǒoŋ-chǎi , jǐŋ aw-paj-kêe , jǐŋ deen rew: khÿn , rew:
khÿn, thúg thii.

'The more I take my watch to be repaired the faster it runs.'

jǐŋ aw-paj-kêe , jǐŋ deen cháa: loŋ , cháa: loŋ , thúg thii .

'The more I take it to be fixed, the slower it runs.'

4.4.3. /bâaŋ/ Class

These postpositions are all weak-stressed forms of those /eeŋ/-class complementives (3.2.2.2.) which have the syntactic function of replacing partitive numeral phrases (3.2.6.3.), and they follow both /wáj/-class and /nág/-class postpositions in the same clause. Just as the /wáj/-class modifies verbs and the /nág/-class modifies adjectives, the /bâaŋ/ class can be said to modify substantives, in the sense that when a noun expression occurs in the prior part of the clause, the /bâaŋ/-class postposition refers to it (see first example under 1. /bâaŋ/ below). When no noun expression is so modified, the postposition has the entire predication as its co-constituent (see second example under 1. /bâaŋ/ below).

Like their counterpart members of the /eeŋ/-class of complementives, the members of the /bâaŋ/-class have covert lexical relationships with partitive numerals (see tabulation in 3.2.6.3.) - for example /bâaŋ/ itself replaces any numeral phrase introduced by /baaŋ/. All members of the /eeŋ/ class which correspond to /bâaŋ/-class postpositions, moreover, can be preceded by /sǎg/-class prepositions (4.2.5.), although individual members are limited as to the type of preposition they can follow - for example /bâaŋ/ itself is preceded only by /iig/. The occurrence of normal stress on the item following the /sǎg/-class preposition and the nature of the construction require interpretation of this item as a complementive rather than a postposition in all cases.

The class meaning of both the /bâaŋ/-postpositions and their corresponding complementives is 'quantity of a substantive expression, or frequency of a predicate or predicative expression.' The class is small but open, with frequent slang innovation. For each member information is given on the partitive numeral replacement and the /sǎg/-class prepositions which precede (the latter information applying only to the complementive).

1. /bâaŋ/ or /mân/ 'some, sometimes, some of it, some of them'
Replaced in numeral phrases by /baaŋ/, follows only /iig/.

phǒm tôŋ-kaan náam iig-bâaŋ .

'I need some more water.'

ichăn jàag capaj ajúd-thajaa: măn sí .
'I'd like to go to Ayuthya sometime.'

2. /lég-nóoj/ 'a few, few, little, a little'
Replaced by /nóoj/, follows /ìig/ and /phiaŋ/.

phôm tôŋ-kaan náam phiaŋ-lég-nóoj .
'I need only a little water.'
àad camii phajú ìig-lég-nóoj .
'There may be a few more storms.'

3. /măj-mâag/ and /măj-thăw-raj/ 'not many, not much'
Replaced by /măj-kii/, follows only /ìig/.

fôn àad catòg ìig măj-thăw-raj .
'Not much more rain is likely to fall.'

4. /mâag/ or /măg-mâag/ and /thăŋ-lăaj/ 'much, many, lots of, the
several'
Replaced by /lăaj/, follows only /ìig/.

Selection among the three forms is complicated: /mâag/ is general, but /măg-mâag/ is usually used where /mâag/ might be interpreted as one of its homonyms (see first two examples); /thăŋ-lăaj/ is used in direct modification of nouns and pronouns as a general pluralizer.

khăw chôob ráb-prathaan aahăan: măg-mâag.
'He likes to eat lots of food (large meals).'

khăw chôob ráb-prathaan aahăan mâag .
'He likes to eat lots of food' or 'He likes eating food very
much.'

năg-rían thăŋ-lăaj † .
'Students!'

jaŋ tôŋ-kaan fôn ìig-mâag (măg-mâag) .
'Much more rain is still needed.'

5. /kii-manóoj/ and /thăw-raj/ 'how much, how many'
Replaced by /kii/, follows /ìig/ and /săg/.

khun tôŋ-kaan náam ìig-thăw-raj .
'How much more water do you need?'
mii năg-rían săg-kii-manóoj .
'About how many students are there?'

6. /mòd/, /thǎŋ-mòd/ and /thǎŋ-sîn/ 'all of it, the whole business'
 Replaced by preposition /thǎŋ/ (4.2.5.2.), follows only /kỳab/.
 khǎw khǒn khǒŋ paj kỳab-mòd: léew .
 'They have taken nearly all the stuff away.'
 ruam thǎŋ-mòd , khíd thǎw-raj .
 'Including everything, how much do you figure it would be?'
7. /thǎŋ-nán/ 'all of them, every one'
 Replaced by /thúg/, follows only /kỳab/.
 khǎw ləej paj-wád: kan thǎŋ-nán .
 'They all went to the wat.'
8. /níd/, /nòoj/, and /níd-nòoj/ 'a little bit'
 Not replaced in numeral phrases, follows /sǎg/ and /ìig/.
 khǒo náam: sǎg-nòoj .
 'Please give me a little water.'
 phũud cháa: loŋ ìig-níd , dǎj: mǎj .
 'Can you speak a little slower?'
 phǒm tǒŋ-kaan tée níd-nòoj: thǎw-nán .
 'I only need a little bit of it.'
9. /jé/ or /jé/ or /jé-jé/ 'a whole lot'
 Not replaced, follows /tǎŋ/ and /ìig/.
 phǒm jaŋ tǒŋ-kaan náam ìig-jé .
 'I still need a whole lot more water.'
 khǎw khǎaj nǎŋ-sýy tǎŋ-jé-jé .
 'They sell an awful lot of books.'
10. /naan/ 'a long time'
 Replaced by /lǎaj/ and a time-classifier, follows only /tǎŋ/ and /ìig/.
 tǒŋ khooj paj-ìig-naam: mǎj .
 'Must we wait much longer?'
 khǎw tham-ŋaan thǎi-nǎi maa-tǎŋ-naam: léew .
 'He has been working here for an awfully long time.'

11. /mǎj-naan/ and /mǎj-cháa/ 'not long'
 Replaced by /mǎj-kìi/ and a time-classifier, follows only /ìig/.
 tōŋ khooj paj-ìig: mǎj-naan.
 'We won't have to wait much longer.'

One discontinuous postposition, which occurs only in parallel construction, probably belongs to this class, although it does not clearly correspond to any partitive numeral, except possibly /khrÿŋ/ 'half':

12. /phlaaŋ... phlaaŋ/ 'simultaneously, sometimes... sometimes...,
 half... half...'
 khǎw phúud: phlaaŋ , hua-ró: phlaaŋ .
 'He was half talking, half laughing.'

Members of the /bâaŋ/ class seem to exclude each other completely. No internal order can be stated.

4.4.4. Enumerative Postpositions

The remaining postpositions are always the final constituents of enumerations, occurring with weak stress in the last possible position in the construction. There are four sub-groups: 1) those which occur after cardinal numeral phrases (3.2.6.1.), 2) those which occur after /níi/-class demonstratives (3.2.4.1.) and their derivatives (see tabulation below), 3) those which occur after interrogative lexemes containing the morphs /ǎj/ and /aj/ (see 2.3.4.5, 6. and tabulation below), 4) those which occur after all types of construction and make enumerations out of whatever precedes. The enumerative postpositions do not form a well-defined, mutually exclusive class, but constitute a residue. Some double as sentence particles (4.5.).

For convenience of reference, the related group of common demonstrative and interrogative lexemes and constructions which are followed by enumerative postpositions of sub-groups 2) and 3) are listed below.

<u>Demonstrative</u>		<u>Interrogative</u>	
/khon-nán/	'that person'	/khra j/	'who'
/khon-níi/	'this person'	/khon-nǎ j/	'which person'
/an-nán/	'that thing'	/ara j/	'what'
/an-níi/	'this thing'	/an-nǎ j/	'which thing'
/jaŋán/ or /ŋán/	'thus'	/thama j/	'why'
/jaŋíi/ or /ŋíi/	'so'	/jaŋa j/	'how'

/m̄yâ-nân/	'then'	/m̄yâ-raj/	'when'
/điaw-ni1/	'now'		
/thi1-nân/	'there'	/thi1-năj/	'where'
/thi1-ni1/	'here'		
/thi1-nôon/	'over there'		
/thâw-nân/	'that much'	/thâw-raj/	'how much'
/khêε-ni1/	'this much'	/khêε-năj/	'to what extent'
/thi1-ni1/	'this time'	/thi1-raj/	'which time'

1) Numeral postpositions

1. /sèed/ or /sèed-sèed/ and /kwàa/ or /kwa-kwàa/ 'plus a residue'

sǒɔŋ rǒɔŋ bàad: sèed .

'Over two hundred baht.'

hâa moon: kwa-kwàa .

'Later than five o'clock.'

(See also 3.2.6.3, end.)

2. /lǎ/ 'per, based on the preceding unit'

Occurs mainly after the simultaneous construction of a unit or metric classifier (3.2.5.1,2.) or classifier numeral (3.2.6.4.) plus the normal-stress morpheme 'one' (see 2.2.3.1.), but also after ordinary cardinal numeral phrases.

klúaŋ raa-khaa baj-lǎ-bàad .

'The bananas are one baht each (one-baht per one-banana).'

nám-taan raa-khaa k1-loo: lǎ , s1b bàad .

'The sugar is ten baht per kilo.'

rǒɔŋ-lǎ-sǒɔŋ .

'Two percent (two per hundred).'

sǎam dyan lǎ-khráŋ .

'Once every three months.'

2) Demonstrative postpositions

1. /eəŋ/ 'the very one, exactly, none other than'
- | | |
|-----------------|-----------------------|
| thâw-nán: eəŋ . | 'Just that much.' |
| dǎaw-níi: eəŋ . | 'Right now.' |
| jaŋán: eəŋ . | 'Precisely that way.' |
| thîi-nîi: eəŋ . | 'Right here.' |
2. /lè/ and /ŋaj/ 'there it is, that's the one (pointing out something that has been sought)'
- | | |
|-----------------|--------------------------------|
| thâw-nán: lè . | 'That's all. That does it.' |
| nîi: ŋaj . | 'Here it is. This is the one.' |
| jaŋán: lè . | 'That's how it is.' |
| khon-nîi: ŋaj . | 'This is the person.' |

(Speakers seem to prefer the form /lè/ after /nán/, /nóon/, and their derivatives, /ŋaj/ after /nîi/ and its derivatives.)

3. /nê/ 'look at this new thing (pointing to something not sought)'
- | | |
|-------------------------|-------------------------------|
| nôon: nê † duu: sǐ † | 'Over there! Look!' |
| nîi: nê , kun-cəɛ hōŋ . | 'Here's the key to the room.' |

The members of this sub-group exclude each other. /lè/, /ŋaj/, and /nê/ are also sentence particles (4.5.2.).

3) Interrogative postpositions

1. /kan/ 'reasonable answer not foreseen'
- | | |
|---------------------------|--|
| maa thamaj: kan † . | 'Why the devil have you come?' |
| cf. maa: kan , thamaj † . | 'Why have you (plural) come?'
(pronoun /kan/) |
| araj: kan † . | 'What in the world!' |
2. /bâaŋ/ 'plural or multiple answer foreseen'
- | | |
|-------------------------------|-------------------------------|
| khun capaj kâb-khraaj: bâaŋ . | 'Who all are you going with?' |
|-------------------------------|-------------------------------|

khun capaꝓ nǎꝓ: bâaꝓ . 'What places are you going to?'
 araꝓ: bâaꝓ . 'What (plural)?'

3. /lâ/ or /lâw/ 'answer demanded'
 maa thamaꝓ: lâ ↑ . 'Why have you come?'
 khun capaꝓ nǎꝓ: lâ . 'Where are you going?'
 araꝓ: lâ ↑ . 'What.' (English falling intonation)
4. /nǎ/ 'answer not expected, or should be already known to speaker'
 maa thamaꝓ: nǎ . 'I wonder why he came.'
 khun capaꝓ nǎꝓ: nǎ . 'Where is it you're going?'
 araꝓ: nǎ . 'What?' (English high rising intonation)

Internal order of the sub-group is 1, 2, 3-4, the last two members excluding each other. Example:

juù thîl-nǎꝓ: kan bâaꝓ lâ ↑ .
 'Where the devil are they all?' ('They are in what unreasonable places, tell me!')

Members 3. and 4. also occur as sentence particles (4.5.2.).

4) General enumerative postpositions

1. /níl/ or /nîl/ or /nîe/ 'this sort of thing (previously mentioned)'
 The first two forms are weak-stressed versions of the demonstrative /níl/ 'this,' and the third contains an additional morpheme (probably to be identified with /lê/ and /nê/, demonstrative postpositions described above).
- wan-aꝓkhaan: nîl , pen kham sǎn-sakrið .
 'This (word) 'Tuesday' is a Sanskrit word.'
- (cf.) wan-aꝓkhaan nîl , phôm caꝓùð ñaan .
 'I'm going to take this Tuesday off.' (demonstrative /níl/)
- suan nág-rían triam paꝓ sóom: kan nîe...
 'As for this business of the preparatory students going to drill...'

2. /nán/ or /nân/ or /nâ/ 'that sort of thing (previously mentioned)'

The first two forms are weak-stressed demonstratives and the third is probably a combination of /nán/ and /nê/ or /lê/.

kaan càb-plaa: nân , mii lăaj jàaŋ .

'For that fish-catching operation there are several methods.'

chalŭaj: nâ , pen chÿy phûu-jǐŋ: thâw-nán .

'That (name) Chaluy is a woman's name only.'

3. /lá/ or /lâ/ 'the new or contrastive thing (I have just mentioned)'

This item is probably to be identified with the complementive /léew/ 'already.'

chalŭaj: lá , pen chÿy phûu-jǐŋ: thâw-nán .

'Now Chaluy (on the other hand) is a woman's name only.'

súan năg-rían triam paj sóom: kan lâ...

'If one brings up the subject of the preparatory students going to drill, now...'

4. /wâa/ 'as follows (new or old quotation)'

This item is a homonym of a conjunction with similar meaning (4.3.3.3.). There is a slight difference in emphasis depending on whether the /wâa/ occurs before or after the intonation break. Compare the first two examples below.

khăw phûud saměe: wâa , aahăan mâj-aròoj .

'What they always say is that the food is no good.'

khăw phûud saměe , wâa aahăan mâj-aròoj .

'They're always talking (about it, saying among other things) that the food is no good.'

Internal order of the sub-group is 1-3, 4. The forms /nâ/, /lá/ and /lâ/ are related to homonymous sentence particles (4.5.1.).

4.5. Sentence Particles

A sentence particle is any bound lexeme which is always the last constituent, or part of the last constituent, apart from intonation, in any clause in which it occurs (regardless of the order in which it actually occurs). The co-constituents of sentence particles are entire predications, enumerations, expressions, and phrases, and also such constructions plus

their postpositional modifiers. The term 'sentence particle' (chosen instead of 'clause particle') indicates a further relationship: most types of sentence particles (except 3. /khráb/-class, below) occur only once per sentence, rather than once per clause. In addition, many sentence particles have variant forms conditioned in two ways: 1) by clause intonation, and 2) by the presence of other sentence particles.

Since the members of this class often occur in clusters at the ends of clauses, always after the morpheme / : /, the term codaphrase is used to refer to such groups of sentence particles. The maximum length of a coda-phrase is four lexemes (or four syllables, if one or more two-syllable particles are present). The sub-classification of sentence particles is based on position in the codaphrase, and the names of the sub-classes are taken from one of the possible maximum sequences:

khun mâj-paj kâb-khăw: rôg-rŷy-khráb nî ↑ .

Sub-classes: 1) 2) 3) 4)

'Well, (you mean) you're not going with them?!!'

The general class meaning of sentence particles is 'attitude of the speaker toward what he is saying,' but the members of the first sub-class (/rôg/-class) also resemble enumerative postpositions (4.4.4.) in that they have close ties with specific syntactic elements in the clause. The whole class is closed, and small, possibly being limited to the members listed in the following sections. All members occur both by themselves and in coda-phrases.

The meanings of sentence particles can be only vaguely stated, because a great deal depends on the emotional interplay between speakers. For the same reason, it is difficult to quote out of context examples of sentences containing particles. In order to avoid repeating examples with sufficient context under different headings, a number of lengthy examples are given consecutively in the last section (4.5.5.) under the general heading 'Sample Exchanges.' Reference is made to these examples after the illustrations of use of individual members of the class of sentence-particles.

4.5.1. /rôg/ Class

These sentence particles occur in the first relative position of the codaphrase, and are in complementary distribution with respect to each other. Some of them have variant forms depending on clause intonation, and others have forms which occur in absolute clause-final position only. The first five members have strong ties with the substantive elements of the clause, and the last three with predicative elements. None has an emphatic form

(occurring simultaneously with / ɿ /); when / ɿ / is present a member of 2: /r̥y̯y/-class is also present in the codaphrase.

1. /rõg/ and /ròg/ or /dòg/ or /dròg/ 'not that' (after negative),
'that's what' (otherwise)

The high-tone variant occurs in absolute clause-final position when / ɿ / is present (this being the most common environment of the entire item), and one of the low-tone variants occurs elsewhere. In codaphrases, it is followed by these members of sub-class 2): 1. /r̥y̯y/, 2. /sɿɿ/, and 3. /naa/. When followed immediately by a member of sub-class 3), it determines the selection of the statement form - e.g. /khâ/, but when sub-class 2) intervenes, the question form of the sub-class 3) member may be selected - e.g. /khã/ (see also 2.3.3.3.).

The item /rõg/ is almost entirely restricted to occurrence in clauses containing a negative (member of the /mâj/ class of modals, 4.1.3.), but occasionally turns up in positive statements (see last two examples below). It does not occur after /jàa/ 'don't.' It has reference to substantive elements in the clause, often to the subject, and directs the force of the negation toward them and away from predicative elements. In this meaning it contrasts semantically with the item /lœj/ 'at all,' which is a complementive of the /eɛŋ/ class (3.2.2.2.10.) and a postposition, rather than a sentence particle (see contrastive examples below).

phõm mǎj-dǎj paj: rõg ɿ .

'I didn't go!' ('not me')

phõm mǎj-dǎj paj: lœj .

'I didn't go at all.' ('not anywhere, not any time')

khǎw mâj-maa thama j: ròg-nâ ɿ .

'Why wouldn't he come?'

mǎj-châj nǎŋ-s̥y̯y khòŋ-chǎn: ròg-nâ .

'You see, it's not my book.'

wan-nán khun mǎj-dǎj-paj baan-s̥ɛn: ròg-r̥œ .

'Didn't you go to Bangsaen that day?'

chǎn lóo lén: ròg . jàa kròod: lœj .

'I was only fooling (that's what). Don't be angry.'

dǎw dâj hǔa-t̥ɛɛ kan-mâŋ: rõg ɿ .

'Pretty soon you'll get your heads cracked, that's what!'

(See also Exchanges, 4.5.5., Nos. 1-2, 2-1, 3-3, 7-2, 7-7, 8-4, 11-4, 12-3, and 14-2.)

2. /nâ/ 'that's what, that's who, that's where, etc.'

This item by itself is easily confused with the postposition /nâ/ (4.4.4.4.2.), and with homonymous forms in the /rÿy/ and /nîi/ sub-classes of sentence particles (4.5.2.3. and 4.5.4.2.), but is clearly distinguishable when it is followed in codaphrases by one of these members of sub-class 2): 1. /rÿy/, 2. /sîi/, 3. /naa/, and 4. /lè/. Semantically it replaces /rõg/ in most positive statements, and is rare after negatives.

kô khun-eeŋ: nâsîi ↑ .

'Well, it was you yourself (that's who)!'

khun cîd: nârëe , sòob dâj .

'Did Chit really pass the exam (is that who you mean)?'

man cathùug hũa tua-eeŋ: nânaa .

'Why, you might hit yourself in the head with it, that's what.'

khun: nâlè , chòob tham sǎaŋ daŋ: nág .

'You really like to make a lot of noise, you do.'

(See also Exchanges 1-4, 2-1, 3-4, and 7-4.)

3. /nîi/ or /nî/ 'this is who, this is what, etc.'

Statements about /nâ/ apply also to this item, and the distribution is the same except that /nîi/ does not appear to occur before /rÿy/. The difference meaning is very slight, but speakers prefer /nîi/ to /nâ/ whenever the hearer is not presumed to know the information given. (This may in turn account for the absence of /nîi/ before the sentence particle /rÿy/, which requests information.)

kô khǎw rúu-càg kan jùu-léew: nîinaa .

'But they already know each other.'

kô man cathùug kracòg: nîinaa .

'Well, you might hit the window with it, don't you see.'

('this is what')

khun: nâlè , chòob tham sǎaŋ daŋ: nág .

'Say, you really like to make a lot of noise.'

(See also Exchanges 2-2, 9-2, and 9-5.)

4. /ŋaj/ 'something known previously becomes newly relevant' or 'how can one overlook this fact'

This item is easily confused with a postposition of similar meaning (4.4.4.2.2.) and also is homonymous with one form of a complementive meaning 'how' (the other form being /jaŋaj/). It occurs alone in clause- and phrase-

final position, and in codaphrases before only one member of sub-class 2):
 5. /lâ/. Whether followed by /lâ/ or not, it determines selection of the
 question form of any sub-class 3) member in the same codaphrase. /ŋaj/ is
 very frequent as a final particle in sentences introduced by the responses
 /nǎj/ and /ŋǎj/ (3.1.2.5, 6.).

!âaw † thamaŋ sýy sǐi-khǐaw maa-ìŋ: lâ . nǎj , bòog-wâa mâj-chôob:
 ŋaj .

'Why on earth did you buy green again? I thought you said you
 didn't like it.' ('how can one explain that?')

nîi nǎŋ-sýy thîi khun-cìd fàag maa-hâj: ŋaj .

'Here's that book Chit gave me to give you.'

(More commonly said with postposition /ŋaj/:
 nîi: ŋaj , nǎŋ-sýy thîi khun-cìd fàag maa-hâj .)

chǎn bòog léew: ŋaj-lâ , wâa man phèd .

'I already told you (didn't I) that it was spicy.'
 (See also Exchanges 12-2 and 13-2.)

5. /nê/ or /nîe/ 'something previously unknown is now relevant' or
 'don't overlook this new thing.'

Both forms also occur as postpositions with similar meaning (4.4.
 4.). The form /nê/ occurs only in clause-or phrase-final position, but the
 form /nîe/ (possibly analyzable morphemically as /nîi/ plus /lê/) also pre-
 cedes one member of sub-class 2): 1. /rýy/. Like 4. /ŋaj/, with which it
 is in semantic contrast, this particle determines the question form of any
 sub-class 3) member in the same codaphrase.

duu khǎw tham araŋ: nê .

'Look at what (new thing) they are doing now.'

chǎn sýy phâa maa-fàag chín: nyŋ nê .

'Here's a piece of cloth I bought for you.'

chín diaw: nîe-rěe .

'Just the one piece?'

paŋ nǎj: kan nîe † .

'Where do you think you're going? (this is news to me)'
 (See also Exchanges 1-3, 4-1, and 4-2.)

6. /lá/ or /lǎ/ or /la/ 'changed situation'

This item is said by ST speakers to be a shortened form of /léew/
 'already,' but in fact it occurs directly after /léew/ itself in the same

clause. It is, however, closely tied to predicative elements, rather than substantive ones. The form /lá/ occurs in clause-and-phrase-final position, the forms /lǎ/ and /la/ elsewhere. In codaphrases it is followed by these members of sub-class 2): 1. /rǎy/, 2. /sɪɪ/, 3. /naa/, and 6) mǎŋ. By itself it determines the statement form of any sub-class 3) particle.

thāa jaŋán , chǎn mǎj-paj: lá .

'In that case I won't go, then.'

aw: lá , phoo thāw-níi: kòon .

'All right, then, that's enough for the time being.'

khun capaj: lǎrǎe .

'Are you going, now?' ('You weren't, just a minute ago.')

ìm lǎew: lǎsɪɪ ↑ .

'Now you must be full!'

dichǎn tǒŋ paj-kòon: lanǎ .

'I'd better be going, now.'

hǎn camâag: paj lamǎŋ .

'Maybe it's too much already.'

(See also Exchanges 15-2.)

7. /mǎj/ 'Yes-no question'

This particle is tied directly to the predicator of the clause, and does not occur in clauses which have no predicative elements (for example, in clauses consisting of substantive expressions, equations, and enumerations). Morphologically speaking, it is related to the negative /mâj/, and does not occur in clauses containing any /mâj/-class modal. If the predicator is a transitive verb, the use of /mǎj/ implies that a voluntary choice is possible, or that the situation is capable of change - it is not used, for example, for past situations or for scheduled future events. If the predicator is an adjective, the selection of /mǎj/ is nearly automatic, regardless of time factors, and simply implies that an evaluation is being asked for. If the predicator is a completive verb or a modal verb, the standard way to ask a question is with /mǎj/, unless a time-element is involved, in which case /rǎyjaŋ/ 'yet?' (4.5.2.1.) is selected.

As a sentence particle /mǎj/ contrasts most strongly with /rǎy/ (4.5.2.1.)-see first, third and fourth pairs examples below. Any interrogative word in a clause containing /mǎj/ automatically has its indefinite meaning - see second pair of examples.

/mǎj/ has a citation form /mǎj/, which also turns up occasionally in formal styles of speech, but no other allomorphs. In codaphrases it is

followed by these members of sub-class 2): 3. /naa/ and 5. /lâ/. It determines the selection of the question-form of sub-class 3) members in all coda-phrases in which it occurs.

thaan kaa-fɛɛ ìlg: mǎj .

'Will you have some more coffee?'

thaan kaa-fɛɛ ìlg: rǎy .

'You're having more coffee, are you?'

khǎw tɔŋ-kaan araj: mǎj .

'Do they want something?'

khǎw tɔŋ-kaan araj .

'What do they want?'

khun chɔɔb pen thahǎan: mǎj .

'Do you like (the idea of) being a soldier?'

or:

'Would you like to be a soldier?'

khun chɔɔb pen thahǎan: rǎy .

Do you like being a soldier?'

khǎw paj-duu nǎŋ: dũaj-kan mǎj .

'Are they going along (as a matter of choice) to see the movie?'

khǎw paj-duu nǎŋ: dũaj-kan rǎy .

'Did they go along to see the movie?'

or:

'Are they scheduled to go along to see the movie?'

or:

'Do they (as a matter of fact) go along to see the movie?'

mýa-waan-níi paj-duu nǎŋ , sanùg: mǎj .

'Was it fun going to the movie yesterday?' (adjective predicator)

raw paj-duu nǎŋ , dɪi: mǎj .

'Shall we go see a movie (is it a good idea)?' (adjective predicator)

khun jǎag capaj dũaj-kan: mǎj .

'Do you want to go along? (modal verb predicator)

raw paj-duu nǎŋ , dǎj: mǎj .

'Can we go to see the movie?' (completive verb predicator).

chǎn sýy nǎŋ-sýy níi maa-fàag , khun chɔɔb mǎj-lâ .

'I bought this book to give you - do you like it?' (answer required)

chǎn sýy nǎŋ-sýy níi maa-fàag khun-cid , khǎw chɔɔb: mǎj-nǎ .

'I bought this book to give Chit - will he (do you think) like it?' (opinion requested)

(See also Exchanges 7-1, 11-1, 11-3, and 12-5.)

8. /thè/ or /thèəd/ 'why not, let's, why don't you'

This particle is tied to the predicate and, like 6. /mǎj/, does not occur in clauses which do not have predicative elements. Also, it does not occur in the same clause with the pre-predicate preposition /ca-/ (4.2.6.3.2.). The second variant /thèəd/ is largely a citation form but occurs in formal varieties of speech as well. In codaphrases it is followed by these members of sub-class 2): 2. /sɪɪ/ and 3. /naa/, the latter being far more common. It determines the selection of the statement form of the sub-class 3) member in all codaphrases in which it occurs.

The meaning of /thè/ is always a mild suggestion, either advocating joint action including the speaker (in which case the pronoun /kan/ often occurs somewhere in the clause) or unilateral action by someone other than the speaker. It is not used in statements of fact, or in urging people to believe assertions, as is the other 'command' particle /sɪɪ/ (4.5.2.2.).

raw paj: kan thè .

'Let's go.'

khun kin: sǎ thè .

'Go ahead and eat it (if you want it).'

kin: sǎ sí ↑ .

'Go ahead and eat it (whether you want it or not).'

kin sǎ-thè !sɪɪ ↑ .

'Please go ahead and eat it!'

khun bèn̄ hǎj-chǎn thýy mǎn̄: thè .

'Why don't you let me carry some of them? '

sǎaj léəw , paj kan: thè-nâ .

'It's late, let's get going.'

(See also Exchanges 7-6, 8-1, 8-3, and 10-3.)

4.5.2. /rýy/ Class

These sentence particles occur in the second relative position of the codaphrase, and are in complementary distribution. All members can follow at least one member of the /rōg/-class (4.5.1.) All have variant forms, some of which are conditioned and some in free variation. Each member has an emphatic form (occurring simultaneously with /!/) , and some of the emphatic forms are distinct from all other allolexes of the particles they represent.

The /rýy/-class members, except for 4. /lè/ and 5. /lá/, are true sentence particles in the sense that they do not have reference to specific

syntactic constructions, but to the sentence as a whole. The sub-class meaning is 'expected reaction from the hearer.' 1. /rŷy/ itself has four derivatives (lexemes containing its allomorph /rŷ/) which actually belong to the /rōg/ class, since they can all be followed by /lâ/ and /naa/ from the present class, but they are listed under /rŷy/ for convenience of contrast.

1. /rŷy/, /rěe/, /rŷ/, /rě/, or /ěe/ 'is the assumption correct?'

Emphatic form: /!rŷy:/

Derivatives: /rŷjaŋ/ or /jaŋ/ 'or not yet; yet?'

/rŷmâj/ 'or not'

/rŷplâaw/ 'or otherwise'

/rŷŋaj/ 'or what'

The variants of the simple particle are distributed as follows: /rŷy/, /rěe/, and /ěe/ occur in absolute phrase-or-clause-final position and, commonly, after members of the /rōg/-class; /rŷ/ and /rě/ occur everywhere, but most commonly with / ↑ / or before members of the /khráb/-class (4.5.3.). The emphatic form /rŷy/ occurs only with loud stress and extra duration, and is nearly always ironic. The presence of any form of /rŷy/, including its derivatives, determines the selection of the question form of any sub-class 3) member.

The simple particle occurs in clauses of any syntactic composition whatever, including substantive expressions, equations, enumerations, and even single substantive lexemes. Its meaning is simply 'confirm my assumption' or 'confirm my understanding of what you just said.' It is mandatory in questions about past events built around a transitive verb predicator, and in negative questions of any kind (see 4.5.1.7. for comparison with /măj/-questions and examples of the contrast). It is one of the possibilities for questioning a non-predicative element of a clause, another possibility being the phrase /châj: măj/ 'Is that so?' which can nearly always replace it in this use.

The four derivative particles, on the other hand, are actually members of the /rōg/-class and are much closer to /măj/ in use. /rŷjaŋ/ 'or not yet' is closely tied to predicates and is usually associated with the item /léew/ 'already.' /rŷmâj/ 'or not' can replace /măj/ in any of its uses but is slightly more formal. /rŷplâaw/ 'or otherwise' is usually an elegant substitute for /rŷy/ itself, but can also replace /măj/. The last derivative, /rŷŋaj/ is an informal substitute for /rŷy/ but also functions as a much more open question-word of the /măj/ type. All four can be followed by the sub-class 2) particles 3. /naa/ and 5. /lâ/. Only /rŷŋaj/ can follow a negative in the same clause.

No member of this group, including /rÿy/ itself, can follow /jàa/ 'don't.' As in the case of /mǎj/, interrogative words have their indefinite meanings before these particles.

In codaphrases, /rÿy/ (but not its derivatives) can be followed not only by sub-class 3) particles, but also by the two sub-class 4) particles /nîi/ and /nân/.

jaŋán: rÿy .

'Is that so?'

sÿa tua-nîi: rĕe .

'This coat?'

sǒoŋ thûm: rÿkhǎ .

'Eight o'clock?'

khǎw chÿy cìd: rĕhǎ .

'His name is Chit?'

cìŋ-cìŋ: ěe † .

'Really?'

mîi †rÿy † manúd cabin dâj .

'Is there such a thing as a man that can fly?!

khǎw paj-lĕew: rĕe .

'Are they gone already?'

khǎw paj-lĕew: rÿjaŋ .

'Have they gone yet?'

khǎw capaj: rÿjaŋ .

'Are they going yet?'

khǎw capaj: rÿmâj .

'Are they going or not?'

khǎw paj: rÿplàaw.

'Did they go?'

thĕe rúu: rÿplàaw .

'Do you know?'

khǎw capaj: rÿŋaj .

'Are they going, or what?'

khun mâj-chôob: rÿŋaj , thÿŋ mǎj-khǒj-sàj: lĕej .

'Don't you like it, or what - that you hardly ever wear it?'

khun mâj-paj wád: rĕkhǎ .

'Aren't you going to the temple?'

khǎw mâj-paj wád: rěnhân ↑ .

'You mean he's not going to the temple?!

mòd we-laa lěew: rěnhî ↑ .

'Is the time up already?!

(For more examples, see /mǎj/, 4.5.1.7., and Exchanges 1-4,
2-1, 4-2, 5-6, 9-1, 10-2, and 16-1.)

2. /s₁₁/, /s₁^í/, /s₁^ì/, or /s₁/ 'this is the correct behavior or belief
(change yours if necessary)'

Emphatic form: /!s₁₁:/

The first three forms occur only in phrase- or clause-final position, the form /s₁^í/ usually with high intonation /↑/, /s₁^ì/ with normal intonation, and /s₁₁/ with either type. The form /s₁/ is almost entirely restricted to occurrence in codaphrases before sub-class 3) members, which may have either their statement or question forms, the latter being more common when /↑/ is present. Sub-class 4) does not occur after any form of /s₁₁/.

The composition of clauses in which this particle is found is identical with that described for /rǎy/ (4.5.2.1.) - the co-constituent may be even a single non-predicative lexeme (see first example below). /s₁₁/ is used most commonly to urge action on the part of someone who is not acting, or to change the course of action of someone who is. When the action recommended is something beneficial to the hearer ('Please sit down!'), the use of /s₁₁/ in this sense is not familiar; otherwise, it definitely is. A second use of /s₁₁/ is in emphatic statements, where it either expresses or urges agreement. Like the sentence particle /mǎj/ (4.5.1.7.) it does not occur in statements about past events which have a transitive verb predicator, being replaced in this situation by the particle /nîl/ - see contrastive examples below.

/s₁₁/ can follow any negative, and is frequently found after /jàa/ 'don't.' In codaphrases it is followed only by sub-class 3) particles, never by sub-class 4). Interrogative words have indefinite meanings before /s₁₁/.

sawàd-d₁₁: sǎ s₁₁ .

'Say hello!' (/sawàd-d₁₁/ is an isolative.)

chœen nâŋ: s₁hǎ ↑ .

'Please have a seat!'

paj sǎ-nòoj: s₁í ↑ .

'Why don't you go!'

maa-duu araj nîl: s₁₁ ↑ .

'Come look at something here!'

jáa paj-nǎj: sɪɪ .

'Don't go anywhere, now.'

thâa jaŋán , chǎn kǒ mǎj-dǎj-paj nǎj: sɪ̀ .

'In that case I won't go anywhere.'

cf. phǒm mǎj-dǎj-paj nǎj: læəj nɪ̀ɪ ↑ .

'Well, I didn't go anywhere at all!'

nân: sikhráb .

'That's exactly it.'

capaj , kǒpaj: sɪ̀ .

'If you're going, then go ahead.'

mɪɪ !sɪ̀ɪ ↑ .

'Of course there are some!'

dɪɪ: sikhǎ ↑ thamaj camâj-dɪɪ ↑ .

'It's good! Why wouldn't it be good?'

(See also examples under /thè/, 4.5.1.8., and Exchanges 1-1, 1-3, 5-2, 5-3, 5-7, 6-1, 6-2, 7-4, 7-8, 10-1, 12-4, 15-2, and 16-2.)

3. /naa/, /nâ/, or /nǎ/ 'I think, isn't it so, don't you agree'

Emphatic forms: /!nǎo:/ and /!nâa:/

All three weak-stressed forms occur in phrase- and clause-final position, with slightly different meanings. /naa/ itself urges acceptance of the speaker's wishes or instructions, and is very close to /sɪɪ/ (4.5.2.2.) in meaning and usage, although it is weaker and somewhat more polite. It occurs frequently after the sub-class 1) particles 2. /nâ/ and 3. /nɪ̀ɪ/ (see 4.5.1.). The second variant /nâ/ is more insistent, but not necessarily rude, and commonly follows the sub-class 1) particles 1. /rǒg/ and 8. /thè/. Both /naa/ and /nâ/ are replaced by the emphatic form /!nâa:/.

The third form /nǎ/ in final position implies merely a weak question or request for confirmation. It frequently follows the sub-class 1) particles 6. /lá/ and 7. /mǎj/, meaning something like 'I wonder if...'. When interrogative words occur in its sentence, the effect is something like an echo-question ('I am supposed to know this, but tell me again.') /nǎ/ is replaced in all its uses by the emphatic form /!nǎo:/. The form /nǎ/ is also the only one which precedes other sentence particles in codaphrases, replacing both /naa/ and /nâ/. It occurs only before sub-class 3), never before sub-class 4), and always determines the selection of the question form of the /khráb/-class particle.

Except for the obvious relationship of the form /nǎ/ to interrogative words, the particle /naa/ does not have close ties with any particular type of clause constituent, and resembles 1. /rÿy/ and 2. /s11/ in this respect. Its forms occur after all types of negative and /jǎa/ 'don't.'

jǎa paj: naa .

'Don't go, O.K.?'

jǎa paj-nǎj: nǎ .

'Don't go anywhere, will you?'

phǒm mǎj-dǎj-paj nǎj: ləəj nǎ .

'I didn't go anywhere at all, did I?'

paj: thee !nǎa † .

'Aw, come on and go, will you?'

bòog léew: nǎnaa , mǎj chÿa .

'I already told you, didn't I, but you didn't believe me.'

bòog léew: nǎi-nǎhǎ , mǎj chÿa .

'This is what I told you, wasn't it, but you didn't believe me.'

paj thaaj nǎj: nǎkhrǎb .

'Which way is it that you are going?'

thamaj. nǎ .

'I wonder why that is.'

thamaj !nǎo † .

'But why?!'

khǎw mǎj hěn: mǎj-nǎ .

'Do you think he can see it?'

laa: th11 lǎnǎ .

'Goodbye, now...'

sǎaj léew . paj: kan thè-nǎ .

'It's late. Let's get going - O.K.?'

kèj: c1j nǎ .

'That's really clever, isn't it?'

(See also examples under sub-class 1) particles which precede /naa/, 4.5.1., and Exchanges 1-2, 3-4, 7-6, and 15-1.)

4. /lè/ or /là/ or /è/ 'here's the thing we've been looking for'

Emphatic form: /!lè:/

All three forms are in free variation. This is a statement particle, very similar in meaning to /ŋaj/ (4.5.1.4.), which has strong ties to the

demonstrative system but also occurs without any demonstrative element in the same sentence. It follows the sub-class 1) particles 2. /nâ/ and 3. /nîl/, and precedes only sub-class 3) particles, for which it determines the selection of the statement form.

Being the most socially acceptable of the statement particles, /lè/ frequently replaces 2. /sîl/ where the latter would be rude. It is rare after negatives, where it is usually replaced by /rõg/ (4.5.1.1.), and after /jàa/ 'don't.'

nân !lèe † chǎn bõog-léew: mǎj-lâ .

'That's just it! Didn't I tell you so?'

khun: nî lè-khâ , chôob tham sǎn daŋ: nág .

'You (are the one who) really like to make a lot of noise.'

phõm mǎj-dǎj-paj nǎj lœej: là † .

'I didn't go anywhere at all!'

nîi: è-rǎy , cahâj chǎn sàj: paj .

'Is this the one you want me to wear?'

thâw-nân: è .

'That's it, now.' 'That's all, now.'

cıŋ: nâlè-há .

'That's right!'

(See also Exchanges 4-3.)

5. /lâ/ or /lâw/ or /lǎ/ 'tell me!'

Emphatic form: /!lâa:/

The first two weak-stressed forms are in free variation in phrase- and clause-final position. The form /lǎ/ occurs only before other sentence particles in the codaphrase. This is basically a question-particle, occurring frequently after interrogative words, with which it has a special relationship, and after the sub-class 1) particle 7. /mǎj/. It also occurs in statements, however, and frequently follows the sub-class 1) particle 6. /ŋaj/, with a meaning something like 'how about that!' In either case it determines the question-form of any sub-class 3) member which follows. It is not followed by sub-class 4) members.

The particle /lâ/, in both statements and questions, is at best familiar and at worst rude unless it is followed by a sub-class 3) particle. It has strong ties with interrogative elements of its clause, but occurs without them and even after /jàa/ 'don't.'

thamaɟ cháa: nág lâ † .

'Why are you so late!'

hěn: mǎɟ-lâw .

'Do you see it?'

thamaɟ cháa: nág lâ-khrǎb .

'Why are you so late?'

ìm léew: lásiɪ † châɟ: mǎɟ-lâ .

'You must be full, aren't you?'

(The first /lá/ is /rǒg/-class, 4.5.1.6.)

jâa paj-nǎɟ: lâ .

'Don't go anywhere!'

paj thaarɟ-nǎɟ: lâ-khǎ .

'Which way shall I go?'

chǎn pen sèed-thǐi mǎa-raɟ: lâw † .

'When would I ever be a rich man!'

phǒm capaj dâɟ jaɟaɟ: kan !lâa†.

'How the devil would I be able to get there?'

nân: ɲaj-lâ , khûu-mân khǒɲ khun-cìd .

'There she is - Chit's fiancée.'

(See also contrastive examples under /mǎɟ/, 4.5.1.7., and Exchanges 3-2, 5-4, 7-3, 12-5, 13-1, and 16-3.)

6. /mǎɲ/ or /maɲ/ 'perhaps'

Emphatic Form: /!mǎɲ:/

The form /mǎɲ/ determines the question-form of any sub-class 3) particle which follows, and the form /maɲ/ determines the statement form. Both are preceded by the sub-class 1) particle 6. /lá/, and both are followed by the sub-class 4) particle 1. /nîi/ in the codaphrase. The difference in meaning between the two variants is slight: /mǎɲ/ expects an confirming answer more than /maɲ/ does. A citation form, /kramaɲ/, is rarely heard outside of formal style.

This particle has an obvious morphological relationship with /bâaɲ/ 'some' (which has an allolex /mân/), and also is possibly related to the question-particle /mǎɟ/ (4.5.1.7), but it has no ties with any particular type of clause constituent. It is slightly familiar in social connotation, but by no means rude.

hěn camâag: paj lamaɲ .

'Maybe it's a little too much.'

khíd-wâa , khăw cachôob: măn .
'Do you think she might like it?'

nîi khoŋ-châj: lamaŋ-khâ-nîi .
'This must be the right one, all right.'

thâa khăw camii thurá: lamăn .
'I guess he must be busy.'
(See also Exchanges 9-3, 14-1.)

4.5.3. /khráb/-Class

These sentence particles occur in the third relative position of the codaphrase, and are in complementary distribution. Each member has at least two forms, morphologically related through a superfix (2.3.3.3.): the question form, which anticipates further discourse (either by speaker or hearer), and the statement form, which does not. Both forms occur in the interior of discourses, the question form usually before / , / or / † / and the statement form before / . /, and both occur at the ends of discourses. (Clauses ending in / † / and phrases ending in / , / are said to have 'suspensive intonation,' requiring the question the form of any /khráb/-class particle.) Most members of the class are also morphologically related to responses (3.1.2.).

No member of the class is related to any particular kind of clause constituent, and the normal pattern of occurrence is one /khráb/-class particle per sentence (although exceptions occur to this in over-deferential speech). The class meaning is 'reinforcement of the speaker's status with the respect to the hearer,' and for the first four members, information is also given on the sex of the speaker. The first two members are clearly deferential, the second two non-familiar, the last two patronizing or rude. Among intimates and established equals, often no particle at all is used. Not listed here are particles of extremely specialized use (e.g. those used in addressing royalty).

Full exemplification of the various uses of the /khráb/-class particles is given only for members 3. and 4., but since, given the proper social situation, the members are interchangeable, the same examples will apply to the whole class with the proper substitution of the form called for. Except for 4. /khâ/, usage varies considerably among speakers, however, the extreme example being 6. /wâ/, where no two informants agreed upon the distribution of forms.

- | | |
|--------------------|---|
| 1. Statement form: | /khrăphôm/ |
| Question form: | /khrăphôm/ |
| Situation: | Male speaking to highly superior, reverend, or noble personage. |

2. Statement form: /câw-khâ/
 Question form: /câw-khã/
 Situation: Female speaking to highly superior, reverend, or noble personage.
3. Statement form: /khráb/ or /há/
 Question form: /khrãb/ or /hã/
 Situation: Male speaking to superior, elder, or non-intimate equal person. (The phonemically less complex forms /há/ and /hã/ are decidedly less formal.)
- C. khun sâab: mãj-khrãb , wâa phěen-thîi jùu thîi-nãj .
 phôm hãa mãj-phób: læej khráb .
- D. nîi: ñaj há . jùu bon-tó: nîi , hěn: mãj-hã .
- C. 'Do you know where the map is? I can't seem to find it anywhere.'
- D. 'Here it is. It's on the table here - see it?'
4. Statement form: /khâ/ or /hâ/
 Question form: /khã/ or /hã/
 Situation: Female speaking to superior, elder, or non-intimate equal person. (The forms /hâ/ and /hã/ are less formal.)
- A. khun sâab: mãj-khã , wâa phěen-thîi jùu thîi-nãj . dichãn hãa mãj-phób: læej khâ .
- B. nîi ñaj hã . jùu bon-tó nîi , hěn: mãj-hã .
 (Same translation as in 3. above.)
5. Statement form: /câ/ or /jâ/
 Question form: /cã/ or /jã/
 Situation: Person speaking to inferior or younger person. Occasionally used among equals. (Forms with /c/ more common among female speakers, those with /j/ among male speakers.)

6. Statement form: /wâ/, /wá/, /wóoj/, or /wéej/
 Question form: /wǎ/, /wóoj/, or /wéej/
 Situation: Person speaking rudely or to intimate equal.
 (Distribution of forms not clear.) For ex-
 amples, see Exchange 5 (4.5.5.5.).

Two other particles probably are variants of this member, but are insufficiently attested: /ee/ and /eej/. Examples (all taken from women's speech):

wan-níi raw cakín araj díi: eej .

'I wonder what we should have to eat today.'

měe , tèn-tua sǎaj: cǐj † capaj nǎj: eej † .

'Say, you're certainly dressed beautifully! Where are you going?'

chǎn bòog hǎj-tôm náam thúg-cháaw † thamaaj: nǎ-ee , mǎj rúu-càg cam † .

'I told you to boil water every morning! Why is it you never remember?'

A. khǎw camaa hǎa khun wan-níi , chǎj: mǎj .

B. cǐj: sǐ-ee † chǎn lyyim sǎ-sanid † .

A. They're coming to see you today, aren't they?'

B. Oh, that's right! I'd completely forgotten.'

4.5.4. /nîi/ Class

These two sentence particles occur in the fourth and last relative position of the codaphrase, and are in complementary distribution. The sub-class meaning is similar to that of the vocative /nîi/ (3.1.3.1.), in that the effect is to call the hearer to his senses. (The difference between the vocative /nîi/ and the homonymous particle is simply a phrase-boundary). Both members of the sub-class have many other homonyms, including particles of the /rǒg/ class (4.5.1.2,3.), so that they are difficult to identify unless they occur after a sub-class 3) (/khráb/-class) particle. Neither member affects the selection of the form of the sub-class 3) particle, but both frequently occur with / † / intonation in clauses introduced by the conjunction /kô/ 'Well,'.

1. /nîi/ or /nî/ 'here, now, you'

nîi khon-chǎj: lamañ-khâ nîi .

'This must be the right one.'

(See also examples under /rǒg/ and /rÿy/, and Exchanges 9-5.)

2. /nân/ or /nâ/ 'there, then, you'

khăw paj-léew: rěkhă-nân ↑. chăñ jaŋ mǎj-than phũud
kakhăw: lœəj .

'(You mean) she's gone already?! I hadn't had a chance
to talk to her at all.'

(See also examples under /rōg/ and /rŷy/ and Exchanges 2-1.)

The flow pattern of codaphrases, in terms of individual members of sub-classes 1) through 4), is summarized below. It can be seen from the chart that /nîi/-class particles occur relatively infrequently, and that they do not occur at all after /sîi/, /lê/, /lâ/, or after any particle containing the demonstrative morpheme /n/.

The key to the chart is as follows. Sub-class 1) particles are arranged along the vertical axis, and sub-class 2) along the horizontal. The presence of any symbol at an intersection means that the two particles in question occur together. The symbol /S/ means that the statement form of the sub-class 3) particle, if present, is called for; the symbol /Q/ means the question-form is called for; the symbol /E/ means either form is possible; and the symbol /X/ means neither is possible. The symbol /N/ means sub-class 4) may occur.

Flow Pattern of Codaphrases

	0. <u>Missing</u>	1. /rŷy/	2. /sîi/	3. /naa/	4. /lê/	5. /lâ/	6. /mǎj/
0. Missing	EN	QN	E	Q	S	Q	EN
1. /rōg/	SN	QN	E	Q			
2. /nâ/	E	Q	E	X	S		
3. /nîi/	E	Q	E	X	S		
4. /ŋaj/	E			Q		Q	
5. /nê/	S	Q					
6. /lâ/	S	QN	E	Q			EN
7. /mǎj/	Q			Q		Q	
8. /thê/	SN		E	X			

4.5.5. Sample Exchanges

Following are some actual exchanges (2.5.1.6.) chosen specifically to illustrate the use of sentence particles, but also having relevance to the whole question of predicate substitution (see 2.5.2.2.). The reference system is as follows: each exchange is assigned a number and each sentence in the exchange is numbered consecutively regardless of speaker; the speaker of each discourse is identified by a capital letter: A. and B. for women, C. and D. for men. The reference '1-1' means the first sentence of the first exchange, and 'A' means 'first woman speaker.' Translations are given only for whole exchanges.

Exchange 1.

- A. 1-1. duu: sī , khǎw tham s̄ya dīchǎn p̄yan: mòd ↑ .
B. 1-2. khǎw khoŋ mãj-dǎj-klêeŋ: ròg-nâ .
1-3. nîi: nê ↑ sàj s̄ya dīchǎn paj: sikhǎ .
A. 1-4. s̄ya nîi: nǎrǎe , cahâj dīchǎn sàj: paj .
B. 1-5. châj: khâ .
- A. 1-1. Look how they got my blouse all dirty.
B. 1-2. I'm sure they didn't mean to.
1-3. Here, wear my blouse, will you?
A. 1-4. Is this the blouse you want me to wear?
B. 1-5. Yes.

Exchange 2.

- A. 2-1. khun mãj-paj thīaw kàb-khǎw: ròg-rěkhǎ-nâ .
B. 2-2. kô mãj-mîi khraj chuan dīchǎn: nîi-khǎ .
A. 2-1. Aren't you going on the trip with them then?
B. 2-2. Well, nobody invited me.

Exchange 3.

- C. 3-1. jàa joon kôon-hĩn jaŋán .
D. 3-2. thamaj: lâ-khrǎb .
3-3. phǒm joon mǎj-hǎj-thuug kracòg: ròg .
C. 3-4. man cathuug hǔa tua-eeŋ: nânaa .
- C. 3-1. Don't throw stones that way.
D. 3-2. Why not?
3-3. I'm throwing so as not to hit the windows.
C. 3-4. You still might hit yourself in the head, though.

Exchange 4.

- A. 4-1. chǎn sýy pháa maa-fàag chín: nyŋ nê .
B. 4-2. chín sǐi-lǎŋ: nîe-rěkhǎ .
A. 4-3. chǎj , chín nán: lè-khâ .
- A. 4-1. Here's a piece of cloth I bought to give you.
B. 4-2. This yellow piece?
A. 4-3. Yes, that's the one.

Exchange 5.

- C. 5-1. khraj tham thûaj-kêew tềeg: wǎ.
D. 5-2. jàa phûud wá: siwóej † .
C. 5-3. bòog: maa sí †
5-4. khraj tham tềeg: lâ .
D. 5-5. mǎj-rúu: wâ .
C. 5-6. mǎj-rúu ciŋ-ciŋ: rěwǎ .
D. 5-7. bòog-wâa mǎj-rúu , kô mǎj-rúu: siwóej † .
- C. 5-1. Who broke the glass?
D. 5-2. Don't say 'wah'!

- C. 5-3. Tell me!
- 5-4. Who broke it?
- D. 5-5. I don't know.
- C. 5-6. You really don't know?
- D. 5-7. If say I don't know, then I don't!

Exchange 6.

- C. 6-1. thaan khâaw dâaj-kan: `sikhrăb .
- D. 6-2. phôm ìm sã-léew: sì .
- C. 6-1. Eat with us, will you?
- D. 6-2. I'm already full.

Exchange 7.

- A. 7-1. paj duu-năj rŷaŋ saj-khoo: kan mǎj .
- B. 7-2. mǎj paj: ròg .
- A. 7-3. thamaŋ: lâ .
- B. 7-4. chǎn mǎj-jàag paj: nâsì .
- 7-5. man nâa-klua-òog .
- A. 7-6. paj: thênâa † .
- 7-7. mǎj nâa-klua: nǎg ròg .
- B. 7-8. khun jàag paj , kǒ-paj khon-diaw: sì .
- A. 7-1. Shall we go see the movie 'Psycho'?
- B. 7-2. I'm not going.
- A. 7-3. Why not?
- B. 7-4. I just don't want to go.
- 7-5. It's terribly frightening.
- A. 7-6. Come on and go!
- 7-7. It's not all that frightening.
- B. 7-8. If you want to go, go by yourself.

Exchange 8.

- A. 8-1. maa-kin-khâaw: kan thè .
8-2. chǎn hǐw-cataaj: léew .
- B. 8-3. thâa-ḡán khun kin: sǎ thè .
8-4. mǎj-tôḡ khooj chǎn: ròg .
- A. 8-1. Come on and eat.
8-2. I'm starving already.
- B. 8-3. In that case you go ahead and eat.
8-4. You don't have to wait for me.

Exchange 9.

- A. 9-1. mǎa-waan-níi chǎn háj-dèg aw-còd-mâaj paj-hâj khun
dǎj-ráb: rǎplàaw .
- B. 9-2. mǎj-hěn mǎi: ləej níi .
- A. 9-3. thâa-jarǎn khǎw khoḡ-fàag khon-ḡyn wáj-hâj: mǎḡ .
9-4. tɔon-nán khun khoḡ mǎj-jùu bâan .
- B. 9-5. mǎa-waan-níi chǎn mǎj-dǎj-paj nǎj: ləej níi.
- A. 9-1. Did you get the letter that I had the boy take over to
you yesterday?
- B. 9-2. I didn't see any (letter) at all.
- A. 9-3. In that case he must have left it with someone else to
give you, I guess.
9-4. You must not have been home at the time.
- B. 9-5. But I didn't go anywhere at all yesterday.

Exchange 10.

- C. 10.1 chəen nâḡ: sǎhǎ ↑ .
- A. 10-2 kâw-îi níi khǒḡḡ-naaj khun nâḡ , mǎj-châj: rěkhǎ.
- C. 10-3 nâḡ: thè-há , mǎj pen-raj .
- C. 10-1 Please have a seat!

- A. 10-2. This chair belongs to your boss, doesn't it?
 C. 10-3. Go ahead and sit down, it's all right.

Exchange 11.

- C. 11-1. khun miı khǎn-n̄ən jàj-jàj bāaŋ: mǎj .
 D. 11-2. phǒm māj-miı: ləəj , sǎg baj: nyŋ .
 C. 11-3. !ée † khun cìd , khǎw camıı: mǎj-nǎ .
 D. 11-4. khǎw māj-miı: rǒg † .
- C. 11-1. Do you have any large silver bowls?
 D. 11-2. I don't even have a single one.
 C. 11-3. Say! I wonder if Chit would have any.
 D. 11-4. No, he wouldn't have any.

Exchange 12.

- A. 12-1. chǎn s̄y s̄ya: maa , tua: nyŋ , m̄yan kakhǒŋ theə .
 12-2. n̄iı: ŋaj .
 B. 12-3. māj m̄yan: rǒg .
 A. 12-4. nǎj , paj-aw khǒŋ-theə maa-duu: s̄i † .
 B. 12-5. h̄n: mǎj-lâ †
 12-6. māj m̄yan: kan ləəj .
- A. 12-1. I bought a new blouse, just like yours.
 12-2. This is it.
 B. 12-3. It's not the same.
 A. 12-4. Well, go and get yours and let's see!
 B. 12-5. Do you see?
 They're not at all alike.

Exchange 13.

- C. 13-1. thamaɟ khun mâj-tham-ɲaan: lâ .
D. 13-2. kô phǒm kam-laŋ tham juu-léew: níi-ɲaɟ † .
- C. 13-1. Why aren't you working?
D. 13-2. Well I am working here, don't you see?

Exchange 14.

- A. 14-1. díchǎn casàɟ s̄yá s̄i-dɛɛŋ tua-níi , kanûŋ kaphrooŋ
s̄i-khǎaw nân , dâɟ: mǎŋ .
B. 14-2. mâj dâɟ: ròg-khá .
14-3. man paɟ: kan , khon-lǎthaŋ .
- A. 14-1. Do you think I can wear this red blouse with that
green skirt?
B. 14-2. Not them.
14-3. They go in opposite directions (clash).

Exchange 15.

- C. 15-1. dèg thaɟ kadèg amee-ríkaa , nísǎɟ mâj-m̄yan:
kan-leeɟ nǎ .
D. 15-2. kô nêɛ: lǎsì † .
15-3. òb-rom: maa , khon-lǎjàaŋ .
- C. 15-1. Thai and American children's characteristics are not
the same at all, are they?
D. 15-2. That's for sure!
15-3. They're brought up in different ways.

Exchange 16.

- A. 16-1. khun mâj-paj baarj-sěen dûaj: rěe .
B. 16-2. paj !sîi † .
16-3. thama j thỹŋ-camâj-paj: lâ † .
- A. 16-1. You're not going to Bangsaen either?
B. 16-2. Of course I'm going!
16-3. Why wouldn't I be going!

TOPICAL INDEX

The index which follows includes the following kinds of entries:

- 1) General linguistic terms: allophone
- 2) Terms specifically defined for this grammar: adjective
(including word-classes identified by reference to a
member: bâaŋ-class postposition)
- 3) Undefined terms and general reference topics (always in
quotes): 'adverb'

Apart from words identifying classes (bâaŋ), no individual ST lexical items are listed here-- see Index of Forms for the latter.

The first reference given on each line of this index is to the organizational heading, the second is to the page number. For example:

adjective bases 2.4.3.1,8,11. 67, 70, 72

Reference to adjective bases will be found in Chapter Two, under the heading 2.4.3. (Reduplications), sub-headings 1), 8), and 11), beginning on three separate pages: 67, 70, and 72. Hyphenated references, either of heading or page numbers, imply a series of references to the same topic within a relatively short stretch of text; e.g. 67-72. References applying to longer passages are given as follows: 67ff.

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INDEX OF FORMS

This index contains ST forms quoted in the grammar which are of classificatory interest in themselves. (It does not contain, for example, forms which occur only as context.) For the most part, the forms quoted are lexical units (2.1.3.), but some sub-lexical items have also been included, insofar as citation of such forms is feasible. An effort has been made to include all the bound lexemes classified in Chapter 3 and their important variants, and such free lexemes as present particular problems of classification or occur frequently in all types of discourse.

For convenience in distinguishing homonyms, an indication of form-class membership or morphological category has been made after each entry. Items in parentheses are variants of an adjacent form; references to the main entry apply equally well to the variant. All numbers are page references; for organizational references, consult the topical index.

Alphabetization in this index is phonemic rather than literal. The consonant sequence begins with zero (i.e. all items starting, in writing, with a vowel will be found at the beginning of the index), and consonants written with a digraph follow their simple counterparts (i.e. all items beginning with /ph/ come at the end of the /p/'s, not in the middle of them). /ŋ/ follows /n/. The sequence of vowels is as follows: /a e ε e i o o u y/.

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