# Base Classification and Word Class in the Bantik Language

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#### Abstract

Word formation in Western Malayo-Polynesian (WMP) languages is defined by the base and the affix they take. In most WMP languages, some word classes, such as nouns, contain words that consist of only a base, whereas others, most typically verbs, take some kind of affix. This paper aimed to present examples of base classification in WMP languages. In addition to word classes that categorize surface forms, base-level classification is not only possible but also necessary for the description of affixation in the Bantik language. This paper discusses base class distinction with a focus on verb forms.

# 1. Introduction

The Bantik language is a subcategory of the Sangiric micro-group (cf. Sneddon 1993) within the Philippine group, which in turn belongs to the Western Malayo-Polynesian language family (cf. Noorduyn, 1991; Sneddon, 1984). It is spoken by approximately 10,000 people in nine villages in Manado, a provincial city in North Sulawesi, and two more villages about 100 km away from Manado (cf. Noorduyn, 1991). Every Bantik speaker also speaks the Manado dialect of Indonesian, though people born after 1970 mostly use the Manado dialect, and those born after 1980 do not use Bantik. Bantik is now in danger of extinction and is the focus of Bawole (1993) and Utsumi (2005).

The Bantik language has five vowels (/i, e, a, o, u/), fourteen consonants (/p, b, t, d, k, g, s, h, ?, m, n, ŋ, r, j/), and a phonemic pitch accent<sup>1)</sup>. The syllable structure is (C)V(C), where only nasals and a glottal stop are allowed as coda. All consonant clusters consist of a nasal sound (one of /m, n,  $\eta$ /), a homo-organic stop (one of /p, b, t, d, k, g/), or an alveolar fricative (/s/). Though they are mostly found mid-word, there are about 20 bases that begin with consonant clusters<sup>2)</sup>. A glottal stop occurs only base-finally except for *kiʔaŋ* (to lift) and *eʔe* (there (distal)).

As is often the case with Philippine languages, Bantik has a rich morphology that is relatively transparent (cf. Himmelmann, 2005). A phonological word in Bantik is

distinguished by prosodic units. A word may consist of only a base, or a base to which affixes and clitics are attached. The term "base" describes "the part to which any other morpheme is attached" (Spencer 1991: 461).

In many Philippine languages, a word may consist of a base; a base+affix(es); and a base+affix(es)+clitic(s). A base consists of a single morpheme in Bantik and is predominantly disyllabic or trisyllabic, although it can be mono-syllabic. Affixes and clitics are attached to a base to form phonological words. Affixes are bound forms attached to words of a specific word class. Clitics, on the other hand, function syntactically as separate grammatical units. By undergoing an affixation, a base may change word class, but it does not change word class *via* cliticization because the grammatical word specifies a particular word class by its properties. Word class is a classification by the surface form of a word. Although classification is done at the word level, base-level classification is also necessary for efficient description of morphological phenomena in the Bantik language.

Each base class is defined by three criteria: a set of affixes that can be attached, word class(es) that belong before and after affixation, and morpho-syntactic behavior after affixation. The third criterion concerns bases that form open class words only, whereas the first two are relevant for all bases.

This paper focuses on the bases of open word classes—nouns, adjectives, and verbs—to show why base-level classification is necessary for morphological description of Bantik. The difference between base classes become most obvious in the observation of the morphological behavior of verbs. Section 2 explains Bantik word classes, followed by a general discussion on the correlation between base class and word class in Section 3. Section 4 is a discussion of the verbal paradigm in Bantik. The morphological procedures that each base class can undergo are discussed in Sections 5 to 7.

#### 2. Bases and word classes

Bantik has 10 word classes:

- Nouns
- Pronouns
- Noun markers
- Nominal modifiers (numerals, quantifiers, and classifiers)
- Adjectives
- Verbs
- Adverbs
- Conjunctions
- Interjections
- · Discourse particles

form a word that belongs to one open class may also form a word that belongs to another when it undergoes affixation. For example, *buŋaŋ* (flower) is a noun when no affix is attached. It forms a verb when a verb-forming affix *maN-/naN-* is attached, resulting in the form *ma-muŋaŋ/na-muŋaŋ*, with a semantically derived meaning "to decorate (non-past/past)." Once affixation is done, a word belongs to only one word class in Bantik, unlike English or Chinese where the same word form can function as a noun in one environment and as a verb in another.

The other seven word classes—pronouns, noun markers, nominal modifiers, adverbs, conjunctions, interjections, and discourse particles—are formed only by a base. These bases do not undergo affixation, which means they belong to only one word class.

The bases that concern the three open classes are classified into eight groups as follows:

Class N: Bases that form a base-only noun

Class A1: Bases that form a base-only adjective

Class A2: Adjective-forming bases: subclass A, subclass B

Class V1: Verb-forming bases Class 1 (forming a basic verb by infixation of -um-/-im-)

Class V2: Verb-forming bases Class 2 (forming a basic verb by prefixation of *ma-/na-*)

Class V3: Verb-forming bases Class 3 (forming a basic verb by prefixation of *maN-/naN*)

Bases in Bantik have different morphological behaviors according to their base class. First, each base class has different set of affixes that can be attached to them. Second, the selection of allomorphs is determined by the base class. For example, the prefix that forms a progressive aspect form has three allomorphs. The choice of allomorph depends not on the phonological condition but on the base class to which a verbal base belongs.

# 3. General description of the correlation between "base classes" and word classes

Most adjective-forming and verb-forming bases can form nouns via the above-described

process, but a relatively small number of bases that belong to Class N form adjectives or verbs. *Uha?* (muscle) can form the adjective *ma-uha?* (strong) by affixation. *Buŋaŋ* (flower) and *suha?* are examples of Class N bases which can form verbs by undergoing affixation: *ma-muŋaŋ* (to decorate) and *ma-nuha?* (to poison).

Adjectives can be formed by a base that belongs in Class A1 and a base in Class A2 that takes the adjectivizing prefix ma-. Bagai (big) and yasa (many) are the examples from Class A1, and ma-yuda (young) and ma-risiy (sour) are the examples from Class A2. Class A2 adjectives are divided into two subclasses, but this subclassification is only relevant when they form nouns. Subclass 1 adjectives take only the circumfix ka-+-ne to form nouns, whereas subclass 2 adjectives can take both the circumfix ka-+-ne and the suffix -ne. For example, ma-yuda (young) and ma-sahioko? (speedy) form the noun ka-yuda-ne (youth) and ka-sahioko?-ne (speed), respectively, but cannot form a noun by only attaching -ne. So, \*yuda-ne and \*sahioko?-ne cannot be found in the Bantik lexicon. By contrast, ma-risiy (sour) and ma-pia (good) can have two noun forms: ka-risiy-ne and risiy-ne for (sourness) and ka-pia-ne and pia-ne for (goodness). The difference between the two noun forms is not clear and is left for future investigation.

Verb-forming bases are classified according to the affix they take when they form a basic verb. There are three affixes when a verb takes the Actor Voice: the infix -um-/-im-, the prefix ma-/na-, and the prefix maN-/naN-. The final N in the latter prefix shows either the nasalization of the first consonant of the base or the insertion of a nasal which is homoorganic with the first consonant of the base. A verb-forming base predominantly takes two affixes, and it is difficult to say which is the more basic form by just looking at the verbs. However, there are several ways to solve this question, two of which are to look at the progressive aspect and to look at the potentive verb.

When a verb-forming base has a progressive aspect, it takes one of three forms: ka-+ BASE+-ne, kapa-+BASE+-ne, and kapaN-+BASE+-ne. Interestingly, a base can take only one of these forms regardless of the number of Actor Voice affixes they take. For example, Class V1 base regei takes the infix -um-/-im- to form the verb "to laugh" and can only take the form ka-regei-ne. The base duhay takes the infix -um-/-im- to form the verb d-um-uhay (to increase) but also takes the prefix maN-/naN- to form the verb man-duhay (to add). When the base has the progressive aspect, it is only the form ka-duhay-ne (be increasing) that it can take. Duhan can be classified into Class V1 based on the semantic feature of its progressive aspect form.

A potentive verb is formed with the prefix ka. When this prefix is attached, the verbal base does not undergo any phonological change, and the prefix ma- is needed in its Actor Voice. The Class V2 base tuci can form both t-um-uci (to drop in) and ma-nuci (to touch). When it takes the form ma-ka-tuci, the potentive verb form, it means "can touch," not "can drop in." Base classification is relevant for many affixes, and a base is consistently classified into one base class, with only one exception which is explained below.

Bases that belong to Class N, which form base-only nouns, sometimes form verbs by undergoing affixation. Those bases are divided into two groups. Those that belong to the first group exhibit features unique to Class N even when they form verbs, whereas those that belong to the second group exhibit features equivalent to verbal bases with verb-forming affixes. The bases that belong to the second group should be regarded as belonging to both Class N (when it is base-only) and Class V3. They will be categorized as Class N when dealing with nominal affixation and Class V3 when dealing with verbal affixation. There is no instance of Class N bases taking the infix -um-/-im- or the prefix ma-/na-, so there is no possibility of being classified into both Class N and Class V1 or V2.

Apart from this instance of classifying the same base into two classes, bases belong to only one base class.

## 4. Verbal morphology

The Bantik verbs, like most Philippine-type languages, have a rich morphology. A verbal base can take up to 11 derivational affixes, all of which add a specific meaning to the verbal base and some of which change the valency. Apart from derivational affixes, a Bantik verbal base has to take at least one affix, which indicates the voice, in order to appear in a sentence. In this paper, the latter will be called voice-indicating affixes and treated differently from the former, derivational affixes. Accordingly, the verbs are categorized into two: basic verbs and derivational verbs. Basic verbs take only voiceindicating affixes, whereas derivational verbs take both voice-indicating and derivational affixes. It is, in most cases, obligatory to attach a voice-indicating affix to a base in order for it to be used in a sentence. There are three voices in Bantik: Actor Voice, Goal Voice, and Conveyance Voice. The last two are undergoer voices in which an agent is marked by the genitive case. Every verb in Bantik, basic or derivational, is assigned to one of those voices. In addition, Bantik verbs also show the tense, which is either the non-past or the past tense, through voice-indicating affixes33. In other words, voice and tense are simultaneously expressed by a portmanteau morpheme. As discussed in Section 2, a base takes one of the following three affixes in the Actor Voice form: the infix -um-/-im-, ma-/ na-, maN-/naN-. The form in the left shows the non-past tense and that in the left shows the past tense. Undergoer voice affixes are only of two kinds in each tense: Base-only and Base +-an forms for the non-past tense and ni-+Base and ni-+Base +-an for the past tense. There are three combinations of the undergoer voice forms:

- Goal voice: Base +-an in the non-past and ni-+Base +-an in the past and no Conveyance Voice.
- (b) Goal voice: Base + -an in the non-past and ni- + Base in the past and no Conveyance Voice.
- (c) Goal voice: Base in the non-past and ni-+Base in the past and Conveyance

Voice: Base + -an in the non-past and ni- + Base + -an in the past.

Some verbs do not take undergoer voices. Here are examples of Bantik sentences that show voice alternation. The same logical meaning is shared by Examples (1) a, b, and c. In (1) c, the verb is in Actor Voice, which takes the prefix maN-, and the Conveyance Voice is marked by a zero morpheme in the non-past tense. The Goal Voice, on the other hand, is marked by the suffix  $-AN^4$ , which has an allomorph /en/ when the last vowel of the base is /a/.

"Terok will drive his car on that road."

Examples (2) a and b show the different forms of Goal Voice in the past tense. In (2) a, the verb ni-boaga? takes only the prefix ni-, which denotes past tense. However, ni-sake-an, the verb in (2) b, takes the suffix -AN in addition to the prefix ni-.

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(2) a. isie
                     ni-boaga?
                                       ni-hili
                     PST-hit (GV)
       SUBI.3sg
                                       GEN-Hilly
       "He was hit by Hilly." (Goal voice, past tense)
     b. kabaro
                   ene
                           ni-sake-an
                                            ni-deki
                           PST-ride-GV
       horse
                                            GEN-Deki
                   that
       "That horse was ridden by Deki." (Goal voice, past tense)
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There are two verbal groups that do not take any voice-indicating affix. First, imperative verbs take base-only forms, such as abi? (climb) in Example (3). Affixed imperatives, such as soha-i "run+- $AI^{5}$ " and pa-namboi "paN-+sow" are used in Bantik, but base-only imperatives are also common. Second, the non-past Conveyance Voice verb forms do not take any affix like diyan in Example (2) and poso? in Example (4).

(3) tansin su-sie i-kau Jump (IMP) LOC-here SUBJ-2sg "You jump toward here." (Imperative construction)

(4) tibi? poso? ni-titin su-botoro rice put (CV) GEN-Titin LOC-bottle

"Rice will be put by Titin in the bottle." (Conveyance voice, non-past)

The number of voices that a verb takes is also an important feature for classification. In the following descriptions, I will use the terms single-voiced, double-voiced, and triple-voiced to describe a verb that takes only the Actor Voice, takes the actor and Goal Voice, and takes all the three voices, respectively.

The transitivity of verbs should also be stated here. Verbs with low transitivity, or with semantically intransitive meaning, are either single-voiced or double-voiced. Single-voiced semantically intransitive verbs generally take the infix -um-/-im- or the prefix ma-/na-. Double-voiced verbs with semantically intransitive meaning include motion verbs, such as r-um-ampay (AV)/rampay-en (GV) (walk) and t-um-eyede? (AV)/t-eyed-an (GV) (stand). These verbs take the actor and the location as arguments, and the latter can be the subject of the Goal Voice clause.

Verbs with high transitivity usually take the prefix maN-/naN- in the Actor Voice, but there is a significant number of bases that take the prefix ma-/na-. The nasalization process<sup>7)</sup> is not possible for the flap  $/\mathfrak{c}/$  and the glottal fricative /h/ in Bantik phonology, so it is understandable that bases like rutan (to shoot) and heken (to count) take the prefix ma-/na-. However, bases such as tunu (to grill) and kari (to dig), which have semantically transitive meanings, take ma-/na-.

In summary, the verbal paradigm in Bantik includes these four factors: the affix that is attached in Actor Voice, the number of voices, the undergoer voice forms in the non-past tense, and the undergoer voice forms in the past tense. Table 1 presents the eight kinds of basic verbal paradigms.

There are two types of inflections with regard to the bases that take the infix -um-/-im-in the Actor Voice: Inflection Types I and II. Verbs that belong to Inflection Type I are single-voiced, that is, they take only the Actor Voice. Inflection Type II verbs take the Actor Voice and the Goal Voice. When they take the Goal Voice, they take the suffix -AN, whether they are in the non-past tense or in the past tense, which can be described as Base + -AN in the non-past tense and ni - Base + -AN in the past tense.

Inflection Types III and IV are verbs that take the prefix ma-/na- in the Actor Voice. The former verbs have only the Actor Voice, whereas the latter have both the Actor Voice and the Goal Voice. The difference between Inflection Types II and IV lies in the affixation pattern in the past tense. Although verbs that belong to both inflection types take the suffix -AN in the non-past tense, those belonging to Inflection Type IV do not take this suffix in the past tense. Therefore, the Goal Voice of Inflection Type IV verbs is Base + -AN in the non-past tense and ni-+Base in the past tense.

So far, patterns of inflection are rather straightforward in that the affix a verb takes in the Actor Voice determines the Goal Voice form. It is, however, not the case with verbs that take the prefix maN-/naN.

Inflection Types V, VI, VII, and VIII include verbs that take the prefix maN-/naN-. As mentioned earlier, this prefix forms verbs with high transitivity, and as a result, almost all the verbs with maN-/naN- are double- or triple-voiced. The exceptions to this are found in Class N bases, which are categorized into Inflection Types V and VI. In other words, when bases that can form a noun by itself form verbs, they should take the prefix maN-/naN-, but not the other two affixes. Inflection Type V classifies single-voiced verbs with the prefix maN-/naN-. Double-voiced verbs that are classified as Inflection Type VI take the suffix -AN both in the non-past tense and the past tense, formalized as Base + -AN and ni+Base + -AN, respectively.

Inflection Type VII also shows the inflection pattern of double-voiced verbs, but their Goal Voice form in the past tense is different from that in Inflection Type VI but the same as Inflection Type IV: they do not take the suffix -AN. The Goal Voice forms of the verbs in Inflection Type VII can be described as Base + -AN in the non-past tense and ni - +Base in the past tense.

There are very limited numbers of verbs classified into the Inflection Type VIII. These verbs take all the three voices. The Goal Voice form is Base + AN in the non-past tense and ni + Base + AN in the past tense, and the Conveyance Voice form is Base only in the non-past tense and ni + Base in the past tense.

As can be observed above, the attachment of suffix -AN is not consistent with regard to the voice. For verbs that belong to Inflection Types II, VI, and VIII, it is attached both in the non-past tense and the past tense, but in those which belong to Types IV and VII, it is only attached in the non-past tense. This paper defines double-voiced verbs as having the Actor Voice and the Goal Voice forms. The two distinctive Goal Voice forms in the past tense, one group with the suffix -AN and the other without, are treated as allomorphs. This is because the two forms have similar syntactic and semantic functions (see Examples (5) and (6)). Examples (5) a and (6) a have the Actor Voice verbs in the non-past tense, whereas (5) c and (6) c have them in the past tense. Also, examples (5) b and (6) b, which have the Goal Voice verb in the non-past tense, have the same affix -AN attached to the verbs and also have NPs with the same semantic feature—PATIENT—as the subject of the clause. The affixation patterns of these six sentences are consistent and exhibit the same semantic features. By contrast, the affixation pattern is different between (5) d and (6) d. In (5) d, the suffix -AN is attached to the Goal Voice verb in the past tense for Inflection Type VI, but it is not attached for the Inflection Type VII, as presented in Example (6) d. However, both sentences have PATIENT NP as the subject. The syntactic and semantic relationship between (5) c and (5) d is the same as that between (6) c and (6) d. Therefore, it can be said that the verb form in (5) d, to which the past tense prefix ni- and the Goal Voice indicator -AN are attached, has the same function as the verb form in (6) d, which does have the prefix ni-, but not the suffix -AN.

# Inflection Type VI

(5) a. isie may-unday si-linda

"She will cure Linda (with medicine)" maN- attached (Actor Voice)

OBJ-Linda

b. i-linda undam-en= $ne^{8}$ 

SUBJ-Linda medicine-GV=GEN.3sg

"Linda will be cured by her (with medicine)" -AN attached (Goal Voice)

c. isie naŋ-undaŋ si-linda

SUBJ.3sg AV.PST-medicine OBJ-Linda

AV.NPST-medicine

"She cured Linda (with medicine)" naN- attached (Actor Voice)

d. *i-linda* ni-undam-en=ne

SUBJ-Linda PST-medicine-GV=GEN.3sg

"Linda was cured by her (with medicine)" NI- and -AN attached (Goal Voice)

Table 1

Inflection Type	Tense	Affix	Base	Actor Voice	Goal Voice	Convey- ance Voice	Meaning
(I) Single- voiced	Non-past Past	-um-/-im-	rerei	r <b>-um-</b> erei r <b>-im-</b> erei	*	*	to be tired
(II) Double- voiced	Non-past Past	-um-/-im-	tonton	t-um-onton t-im-onton	tontoŋ- <b>an</b> <b>ni-</b> tontoŋ- <b>an</b>	* *	to watch
(III) Single- voiced	Non-past Past	ma-/na-	taku?	ma -taku? na -taku?	*	* *	to be afraid of
(IV) Double- voiced	Non-past Past	ma-/na-	kiso	ma-kiso na-kiso	kiso- <b>n</b> <b>ni-</b> kiso	*	to rub
(V) Single- voiced	Non-past Past	maN-/naN-	tahiti Class N	ma-nahiti na-nahiti	*	* *	to rain
(VI) Double- voiced	Non-past Past	maN-/naN-	buŋaŋ Class N	<b>ma</b> -muŋaŋ <b>na</b> -muŋaŋ	buŋaŋ- <b>en</b> <b>ni</b> -buŋaŋ- <b>en</b>	* *	to decorate
(VII) Double- voiced	Non-past Past	maN-/naN-	buno	<b>ma</b> -muno <b>na</b> -muno	buno- <b>n</b> <b>ni</b> -buno	*	to kill
(VIII) Triple- voiced	Non-past Past	maN-/naN-	bihei	ma-mihei na-mihei	bih-an ni-bih-an	bihei <b>ni</b> -bihei	to give

## Inflection Type VII

(6) a. side ma-mire si-kuntua

SUBJ.3pl AV.NPST-choose OBJ-mayor

"They will choose the village mayor." maN- attached (Actor Voice)

b. *i-kuntua* pire-n n-side

SUBJ-mayor choose-GV GEN-3pl

"The village mayor will be chosen by them." -AN attached (Goal Voice)

c. side na-mire si-kuntua

SUBI.3pl AV.PST-choose OBI-mayor

"They chose the village mayor." naN- attached (Actor Voice)

d. *i-kuntua* ni-pire n-side
SUBJ-mayor PST-choose (GV) GEN-3pl

"The village mayor was chosen by them." NI- attached Goal Voice (but not -AN)

In Sections 5 to 7, each base class is presented with the affixes they may take, together with the inflection type when a base takes voice-indicating affixes.

## 5. Class N bases: Bases that form base-only nouns

Class N bases, by definition, form nouns on their own. Bases that belong to this class may undergo the following morphological procedures:

- (1) Full reduplication denoting plurality.
- (2) Take the suffix -AN (and partial reduplication) to form a derived noun.
- (3) Take the prefix or the circumfix that means "one": sin, sinka-, or sinka- + -an.
- (4) Take a set of voice-indicating affixes: the prefix *maN* that forms an Active Voice verb and the suffix that forms a Goal Voice verb -*AN*, and the prefix *ni* that attaches to the Goal Voice verb to indicate the past tense.
- (5) Take the prefix that forms a verb that means "wearing" something: gi-.

The full reduplication is the only productive procedure, though the others have fairly limited productivity. Personal pronouns are categorized in the dependent word class (see Section 2) because they do not show full reduplication, but do show partial reduplication<sup>9)</sup>, and the

Table 2: Class N bases and their reduplicated forms

Class N Base	meaning	Fully reduplicated form	meaning
buk	book	buk- buk	books
puyuŋ	grandchild	puyuŋ- puyuŋ	grandchildren
barei	house	barei- barei	houses
sinage	friend	sinage- sinage	friends
ana?	child	ana-ana?	children
metehe?	teacher	metehe-metehe?	teachers
manu?	bird	manu-manu?	birds

meaning added by it means "restriction," not "plurality." Table 2 presents examples of Class N bases and their reduplicated forms. The glottal stop, which is not reduplicated in any case in Bantik. Bases with the final glottal stop are shown on the last line.

The bases that can undergo the morphological procedure in (2) above are limited in number. For example, *gagudaŋ-en* (generation) is derived from *gagudaŋ* (parent); the suffix *-AN* is attached to the Class N base. A similar morphological process is observed with the base *taon* (year), which forms *taon-an* (several years) with the suffix *-AN*. The base *kayu* (tree) needs both partial reduplication and affixation to form *ka-kayu-an* (woods).

The examples of the morphological procedure in (3) are presented in Table 3. This procedure is also not productive. Only the bases associated with "group" or "pair" can form derived nouns with the prefix *sinka-/sin-*. The prefix the base will take cannot be predicted, nor whether it needs the suffix *-AN* in addition to the prefix.

Class N base	meaning	Form with siŋka-sin-	meaning
banua banti? tuhaŋ	country, village Bantik sibling	siŋka-banua siŋka-banti? siŋka-tuhaŋ	whole country whole Bantik people brothers and sisters
iaŋkuŋ	spouse	siŋka-aŋkum-an	husband and wife
gio	shape	sin-gio	same shape

The morphological procedure in (4) shows Class N base-form verbs are much more productive than the procedures (1), (2), and (3). However, not all the bases that belong to Class N can be verbalized by affixation. The most important thing to be noted here is that Class N verbs take only the prefix maN- when they form verbs, which shows that only two inflection types, V and VI, are possible for Class N bases. Table 4 presents examples of Class N verbs that form verbs with voice-indicating affixes.

In procedure (5), Class N verbs form single-voiced verbs. With raku?, the verb ma-gi-

Table 4: Class N bases that form verbs

Inflection Type	Base/Noun	Meaning	Tense	Actor Voice	Goal Voice	Meaning
(V)	tahiti	rain	NPST	ma-nahiti	*	to rain
	7	.,	PST	na-nahiti	*	
	du	spit	NPST PST	may-udu	*	to spit at
	bahanei		NPST	naŋ-udu ma-mahanei	*	to have sources
	vananei	courage	PST	ma-mananei na-mahanei	*	to have courage
			131	na-mananei	*	
(VI)	ьиŋаŋ	flower	NPST	та-тиŋаŋ	buŋaŋ-en	to decorate
			PST	па-тиŋаŋ	ni-buŋaŋ-en	
	suha?	poison	NPST	ma-nuha	suha?-en	to poison
			PST	na-nuha	ni-suha?-en	
	undaŋ		NPST	ma-ŋundaŋ	undam-en	to cure (by medicine)
			PST	ma-ŋundaŋ	ni-undam-en	

raku?/na-gi-raku? (to wear clothes (non-past/past)) is formed, and with sahimin (glass, mirror), the verb ma-gi-sahimin/na-gi-sahimin (to wear glasses (non-past/past)) is formed.

## 6. Class A1 and Class A2 bases: Bases that form adjectives

Class A1 bases, by definition, can function as adjectives on their own, whereas Class A2 bases need the prefix ma- in order to function as adjectives. Unlike verbs, Bantik adjectives do not have tense opposition. Both base-only adjectives and the ma- prefixed adjectives do not change their form in whatever time setting the clause exhibit, whether an adjective functions as a modifier (bagai "big" in Example 7) or the predicate (ma-conkon "ripe" in Example 8).

(7)	a. <i>i-ama?</i>	ma-hiŋa?	kinasa?	bagai	tahibi
	SUBJ-father	AV.NPST-cook	fish	big	tomorrow
	"Father will o	ook a big fish ton	norrow."		
	b. <i>i-ama</i>	na-tunu	kinasa?	bagai	kahibi

b. i-ama na-tunu kınasa? bagai kahıbı

SUBJ-father AV.PST-grill fish big yesterday

"Father grilled a big fish yesterday."

(8) a. uai y-kami aya=ken ma-roykoy
mango GEN.1pl.INC not=CONT ADJVZ-ripe
"The mango is not ripe yet." The present situation

b. *uai y-kami* **ma-roykoy**=te kahibi mango GEN.1pl.INC ADJVZ-ripe=COMP yesterday

"The mango was already ripe yesterday." The situation in the past

Bases that belong to Classes A1 and A2 undergo these morphological procedures:

- (1) Take the prefixes that indicate the degree of the state which is denoted by an adjective: the prefix iŋka- "the high degree," riN- "the low degree," and kika- "the preferable degree."
- (2) Take a partially reduplicated form that indicates plurality:  $C1 + \frac{a}{a} + Base$ .
- (3) Take a partially reduplicated form with affixation that indicates "excessiveness":  $na-+\sigma 1C2V2+/a/+Base$ .
- (4) Take a partially reduplicated form that indicates "higher degree," used in the comparative construction:  $(ma-) + \sigma 1C2V2^{10} + /a/ + Base$ .
- (5) Take the noun-forming prefix *maŋka* to form a noun that indicates admiration or wonder.
- (6) Take one of the verb-forming affixes: the infix -um-/-im- (and in some cases  $/\eta$ / insertion) or the prefix maN-/naN-.

- (7) Take the partially reduplicated form and the circumfix ka--ne to form a nominalized form.
- (8) Take the prefixes *ma* and *kika* to form an Actor Voice verb (also a single-voiced verb) that means "to like something to be in the state denoted by the base."

Procedures (1) to (5), (7), and (8) are unique to Classes A1 and A2. For the purpose of this paper, procedure (6) compares the affixation patterns of different base classes. The examples in procedures (3) and (4), which involve prefixes identical to the Actor Voice prefix ma-/na-, will be presented to show the morphological differences between adjectives and verbs. Example (9) shows that the prefix na- does not indicate the past tense, and a base should be reduplicated when it is attached. Both bagai "big" and na-baga-bagai "too big" in Examples (9) a and (9) c describe a situation at the time of the utterance, with the same base that belongs to Class A1. Similarly, Class A2 base adjectival form iha? appears as ma-iha? "hot" in (10) a and na-iha-iha? "too hot" in (10) c. Both sentences describe the current situation. The prefix na- never attaches to the bases that belong to Classes A1 and A2 without undergoing partial reduplication, as presented in (9) b and (10) b.

```
(9)
                                                 konio?-an
     a. raku?
                   ie
                           bagai,
                                      donka
       clothes
                   this
                                      later
                                                 small-GV
                           big
       "This piece of clothing is big, (so it) will be made small later."
                                                                               Class A1
     b. raku?
                    ie
                             *na-bagai
     c. raku?
                                                           konio?-an
                    ie
                             na-baga-bagai,
                                                doŋka
                                                           small-GV
                             EXC-RED-big
       clothes
                    this
                                                later
       "This piece of clothing is too big (so it) will be made small later."
                                                                               Class A1
(10) a. kobi
                   ie
                            ma-iha?
                                            tumani bo ana? ie
                                                                  ava=te
        coffee
                   this
                            ADJVZ-hot
                                            very and child this
                                                                   no=COMP
                            man-inun
         m-uari
                            AV.NPST-drink
         AV.NPST-begin
         "This coffee is too hot and this child cannot start drinking yet."
      b. kopi
                   ie
                            *na-iha?
                            na-iha-iha?=te
                                                      bo ana? ie
      c. kopi
                   ie
                                                                       aya=te
        coffee
                           EXC-RED-hot=COMP
                                                      and child this
                                                                       no=COMP
                   this
         m-uari
                            man-inun
         AV.NPST-begin
                           AV.NPST-drink
         "This coffee is too hot and this child cannot start drinking yet."
```

Examples (11) and (12) are comparative construction sentences. The conjunction *bo* is positioned before the NP, which is the criterion for comparison. Class A1 bases need only a reduplication of the first syllable and the onset and the vowel of the second syllable as in Example (11), whereas Class A2 bases need the prefix ma- attached before the partially

reduplicated form.

(11) *i-yopi* baha-bahanei bo i-rempis

SUBJ-Yopi RED-brave and SUBJ-Rempis

"Yopi is braver than Rempis."

(12) *i-heis ma-uha-uha? r-um-ampaŋ bo i-titin*SUBJ-Heis ADJVZ-RED-strong AV.NPST-walk and SUBJ-Titin
"Heis is stronger (walks faster and longer) in walking than Titin."

Both procedures above involve partial reduplication, but the semantic features differ from verbal reduplication where the iterative aspect is indicated by this form. In addition, the verbal reduplication has tense opposition (the non-past tense and the past tense by *ma-/na-* alternation).

Class A1 and A2 bases can form verbs with similar morphological procedures, as presented in Table 5, and their inflection patterns are either Type I or VI. In other words, a single-voiced verb formed with Class A1 or A2 bases should exhibit Inflection Type I, and a double-voiced verb formed with those bases should exhibit Inflection Type IV. The semantic feature of the former verbs is the change of the state, and that of the latter verbs

Table 5: Verbs formed from the bases that belong to Classes A1 and A2

Inflection Type	Adjective	Meaning	Tense	Actor Voice	Goal Voice	Meaning
(I) /ŋ/	ma-pedeke?	short	NPST PST	n-um-edeke?	*	to get shorter
insertion/ substitution	ma-baha?	heavy	NPST PST	n-im-aha?	*	to get heavy
Substitution	ma-iha?	hot	NPST PST	n-im-iha? n-im-iha?	*	to get hotter
(I) without /η/	gudaŋ	old	NPST PST	g-um-udaŋ g-im-udaŋ	*	to get old
insertion	ŋasa	many	NPST PST	n-um-asa n-im-asa	*	to increase
	ma-heta	wet	NPST PST	h-um-eta h-im-eta	*	to get wet
	ma-tiŋkope?	blunt	NPST PST	t-um-iŋkope?	*	to get blunt
	ma-roŋkoŋ	ripe	NPST PST	r-um-oŋkoŋ r-im-oŋkoŋ	*	to get ripe
(VI)	bagai	big	NPST PST	mam-bagai nam-bagai	bagar-en <sup>11)</sup> ni-bagai	to enlarge
	darai?	bad	NPST PST	man-darai?	darai?-an ni- darai?	to break
	gehe?	torn	NPST PST	maŋ-gehe?	gehe?-an ni-gehe?	to tear
	ma-pikihi?	considerate	NPST PST	ma-mikihi?	pikih-an ni-pikihi?	to consider
	ma-tegaŋ	skeptical	NPST PST	ma-negaŋ	tegaŋ-en	to doubt
	ma-ombara?	loud-voiced	NPST	na-negan ma-ŋombara?	ni-tegaŋ ombar-en	
			PST	na-ŋombara?	ni-ombara?	to shout

is high transitivity, in which an agent is doing something to the patient.

The insertion of the velar nasal  $/\eta$ / or the substitution of the first consonant of the base with  $/\eta$ / occurs only in Classes A1 and A2. It is not clear what phonological condition triggers this. So far, bases that begin with /i/, /p/, and /b/ are found to undergo the velar nasal insertion or substitution. As can be seen in Table 5, bases that begin with the other phonemes do not undergo this process. However, verifying phonological conditions is difficult because the number of bases that take inflection pattern I is limited. A large number of bases that belong to Classes A1 and A2 take the prefix maN-/naN- to form double-voiced verbs. Examples (13) and (14) contain verbs formed from adjectival bases.

- (13) ana? ene h-im-eta ka na-tin-tahiti=te child that AV.PST-wet because AV.PST-VL- rain=COMP
  "That child got wet because he played in the rain." Inflection Type (I)
- (14) a. side ma-negay si-kau

  SUBJ.3pl AV.NPST-doubt OBJ-2sg Inflection Type (IV), (Actor Voice)
  b. i-kau tegay-en n-side

  SUBJ-2sg doubt-GV GEN-3pl Inflection Type (IV), (Goal Voice)

  "They have a doubt on you."

# 7. Class V1, V2, and V3 bases (verbal bases)

## 7. 1 Morphological procedures relevant to verbal bases

Bases that belong to Classes V1, V2, and V3 almost always appear with voice-indicating affixes. As already mentioned, there are two exceptions to this: bases that can appear as imperative verbs and a limited number of bases that appear in the Conveyance Voice form in the non-past tense.

The verbal bases below show the largest number of morphological procedures:

- (1) Take a voice-indicating affix and function as a verb
- (2) Take the following noun-forming affixes:
  - (A) the partial reduplication C1/a/+Base to indicate "the way of the action is done" with the prefix pa-, or the prefix ka-, or without any.
  - (B) the partial reduplication C1/a/+Base to indicate "the tool for the action"
  - (C) the partial reduplication C1/a/+Base to indicate "the place where the action takes place," with the suffix -AN and the prefix pa- for some bases, and only with the suffix -AN for the other.
- (3) Take the prefix *pa-/paN-* to form an instrumental verb.
- (4) Take the prefix pa-/paN- and the suffix -AN to form a locative verb.
- (5) Take the prefix *paN* to form an applicative verb.
- (6) Take the prefix pa-/paN- to form a causative verb.

- (7) Take the prefix *paki* to form a causative verb.
- (8) Take the prefix *tin/tinka* to form a voluntary verb.
- (9) Take the prefix i- to form an involuntary verb.
- (10) Take the prefix *kipa* to form a verb that denotes "assisting."
- (11) Take the prefix hi- and the suffix -AN or the prefix hiN- to form a reciprocal verb.
- (12) Take the prefix ka- to form a potentive verb.
- (13) Take the circumfix ka-/kapa-/kapaN-+Base+-ne to form the progressive aspect. Take the suffix -AI and/or paN- to form the imperative form.

As pointed out in Section 3, the semantic features of a verb when it is equipped with the potentive prefix ka- and the progressive prefix ka-/kapa-/kapaN- are the test frames for determining which base class a verbal base belongs to.

Base classification is relevant for almost all morphological procedures that have allomorphs. The base classes cannot explain the conditions of the allomorphs of the voluntary prefix tin-/tinka-. The involuntary prefix i-, the assisting prefix kipa-, the potentive prefix ka-, and the causative prefix paki- do not have alterations, so base classes are irrelevant. Apart from these, all allomorphs should be explained using the base class distinction.

#### 7. 2 Patterns of nominalization

Table 6 contains examples of nominalization. The first line shows the base classes, and the second line shows the verbs that take the most basic verb form. The nominalization does not apply to every base, and there are differences in productivity. The least productive nominalization is the one which denotes an object relevant to the action, such as *s-a-sinda?* "breath, lung" from the base *sinda?* whose verb form is *s-um-inda?* "to breathe". This procedure, in which the first consonant of the base is reduplicated followed by /a/ and the base, is applicable to all verbal base classes, but there are very few cases of words that denote an object relevant to the action. The same procedure is applied to base class V3 to form a noun that denotes "the tool used in the action denoted by the verb." The verb *ma-nihuŋ* "to scoop" is formed from the base *sihuŋ*, and when it undergoes the nominalization process above, *s-a-sihuŋ* "scoop, spoon" is formed. Nouns with this semantic feature are only found in words formed with Class V3 bases.

Each verbal base class follows distinct processes when forming a noun denoting "the manner of action." The partial reduplication process, in which the first consonant of the base is reduplicated followed by /a/, is shared by all the three classes. Although Class V1 bases do not need further processing, Class V2 bases need the prefix ka-, and Class V3 bases need the prefix paN-. So, t-a-tuyu "the manner of running" is formed from the Class V1 base tuyu, ka-s-a-saka "the manner of climbing" is formed from the Class V2 base saka, and pa-ma-muahi "the manner of drying" is formed from the Class V3 base puahi.

When a verbal base forms a noun denoting "the place where the action takes place," the same partial reduplication pattern as the one above is observed in all the three verbal classes, the suffix -AN is attached, and, for Class V1 bases, there is no prefix needed. It is necessary to attach the prefix pa- to a Class V2 base and the prefix paN- to a Class V3 base. D-a-dusun-an "downhill" has the Class V1 base dusun, pa-b-a-baru2-an "shop" has the Class V2 base baru2, and pa-ma-muto2-an "shortcut" has the Class V3 base poto2. The verb forms created using these bases and their meanings are d-um-usun "to descend", ma-baru2 "to sell", and ma-moto? "to cross".

Table 6: Nominalized forms of base Classes V1, V2, and V3

	Base V1	Base V2	Base V3
The AV form with a voice-indicating affix	The infix -um-/-im- t-um-etese? "to drop" s-um-inda? "to breathe" t-um-tuyu "to run" s-um-enko? "to sail" d-um-usun "to descend" s-um-u? "to enter"	The prefix ma-/na- ma-suan "to plant" ma-saka "to climb up" ma-tutuŋ "to burn" ma-baru? "to sell" ma-tiki "to sleep"	The prefix maN-/naN- ma-maehe? "to reward" ma-muahi "to dry" may-ompu "to worship" man-dahuŋ "to sew" ma-nihuŋ "to scoop" ma-moto? "to cross" ma-neno "to bathe"
Nominalization: Object relevant to the action	C1/a/+Base t-a-tetese? "drip" s-a-sinda? "breathe, lung"	C1/a/+Base s-a-suan "plants"	C1/a/+Base b-a-baehe? "reward"
Nominalization: The tool used in the action	NA	NA	C1/a/+Base d-a-dahuŋ "needle" s-a-sihuŋ "scoop, spoon" t-a-turubu? "cover, blanket"
Nominalization: The manner of the action	C1/a/+Base t-a-tuyu "the manner of running" s-a-seyko? "the manner of sailing"	ka-+C1/a/+Base ka-s-a-saka "the manner of climbing up" ka-t-a-tutuŋ "the manner of burning"	paN-+C1/a/+Base pa-m-a-muahi "the manner of drying" pa-ŋ-a-ŋompu "the manner of worshipping"
Nominalization: the place of action	C1/a/+Base+-AN d-a-dusun-an "downhill" s-a-su?-an "entrance"	pa-+C1/a/+Base+-AN pa-b-a-baru?-an "shop" pa-t-a-tiki-an "bed, bedroom"	paN+C1/a/+Base+-AN pa-m-a-moto?-an "shortcut" pa-n-a-neno-an "bathroom"

# 7.3 Derivational verbs and the progressive aspect

Some derivational verbs are formed with affixes with identical phonological forms, whereas others take distinctive allomorphs according to the base class. The phonologically identical prefix pa-/paN- can function to forman instrumental verb, an applicative verb, a causative verb, and a locative verb with the suffix -AN. Conditions for allomorphs pa- and paN- are the same as any function above.

## 7. 3. 1 The prefix pa-/paN- and base classes

A noun which denotes an instrument becomes the subject of an instrumental verb. Instrumental verbs are formed from either Class V2 or V3 base but restricted to those which have high transitivity. Class V1, N, A1, and A2 bases can never form an instrumental verb. verbs. Example (15) has an instrumental verb formed with a Class V3 base.

(15) pisou=ku ni-pa-ŋarimu?=ku kororusu?

knife=GEN.1sg PST-PAN-make=GEN.1sg top

"My knife was used by me to make a top (for a toy)." Class V3

The three verbal base classes can form locative verbs, but there is a semantic restriction. Bases that denote motion or action can form locative verbs, but those which denote sensation or emotion cannot. Locative verbs take the location NP as the subject. Class V1 and V2 bases take the prefix pa-, but Class V3 bases take paN-. A locative verb formed from a Class V1 base is found in Example (16), and that which is formed from a Class V3 base is shown in Example (17).

- (16) barei=ne ni-pa-tened-an su pogidon
  house=GEN.3sg PST-PA-stand-AN LOC Pogidon

  "His house was built in Pogidon (=an old name for Manado city in Bantik)." Class V1
- (17) kadu ie pa-ŋiaŋ-en=ku rabanen
  sack this PAN-lift-AN=GEN.1sg sand
  "I'll put sand in the sack (Lit. This sack will be placed sand by me)." Class V3

A causative verb can be formed either by the affixation of pa-/paN- or paki-. The latter prefix can be attached to every base class. Many bases that belong to Classes V1 and V2 take the prefix pa-, but very small groups of Class V3 bases take the prefix paN-. Most of the verbs formed from a Class V3 base and the prefix paN- are applicative verbs which add an instrumental, locative, or beneficiary argument, but without causative meaning. One Class N base that forms a verb taking the prefix maN- can also form a locative verb. From saŋkoi "field", an applicative verb which takes an additional instrumental argument pa-naŋkoi-an "to culture with something" is formed. A causative construction with a verb that takes the prefix pa- and the prefix paN- is shown in Examples (18) and (19), and an applicative construction is shown in Example (20).

- (18) *i-deki ma-pa-hompoy ni-stefi su hahompoyan*SUBJ-Deki AV.NPST-PA-sit GEN-Stevy LOC chair
  "Deki will make Stevy sit on the chair." Causative verb with Class V1 base
- (19) i-ma?=ne ma-pa-nuhe nu ana?=ne raku?

  SUBJ-mother=GEN.3sg AV.NPST-PAN-wear GEN-child=GEN.3sg clothes

  "Her mother will dress her child (lit. Her mother will make her child wear clothes)."

  Causative verb with V3 base
- (20) *i-remi* ma-mandaŋ pisou=ne
  SUBJ-Remi AV.NPST-test knife=GEN.3sg
  "Remi tested his knife."

b. *i-remi ma-pa-manday nu-pisou=ne su pun nu-teriy*SUBJ-Remi AV.NPST-APPL-test GEN-knife=GEN.3sg LOC trunk GEN-bamboo
"Remi tested his knife on the bamboo trunk."
Applicative verb with Class V3 base

There is no Class V1 and V2 base that can form an applicative verb. Table 7 contains examples of bases and the verbs formed with the prefix pa-/paN-.

Table 7: Base classes and verb formation with the prefix pa-/paN-

	Base V1	Base V2	Base V3
The AV form with a voice-indicating affix	The infix -um-/-im- t-um-ara? "to fly" t-um-eŋede? "to stand" k-um-aha? "to cry"	The prefix ma-/na- ma-hiudu? "to pull" ma-heken "to count" ma-samboi "to scatter" ma-hata "to cut" ma-tiki "to sleep"	The prefix maN-/naN- ma-mudu? "to pick" ma-nukusu? "to close" ma-moto? "to cross" ma-nurubu? "to cover" ma-maren "to throw" man-inun "to drink" ma-nuhe "to dress"
Instrumental verb	NA	pa-+Base pa-hiudu? "be used for pulling" pa-heken "be used for counting	paN-+Base pa-mudu? "be used for picking" pa-nukusu? "be used for wrapping"
Locative verb	pa-+Base+-AN pa-ta <sub>r</sub> a <sub>r</sub> -en "be flew at" pa-te <sub>g</sub> ed-an "be built at"	pa-+Base+-AN pa-samboi-an "be scattered at" pa-hata-n "be cut at"	paN+Base+-AN pa-moto?-an "be crossed at" pa-nurub-an "be covered at"
Applicative verb	NA	NA	paN-+Base ma-pa-marey "take something by throwing" ma-pay-inuy "drink with something"
Causative verb	pa-+Base ma-pa-kaha? "make someone cry"	pa-+Base ma-pa-tiki "make someone sleep"	paN-+Base ma-pa-nuhe "dress someone"

## 7. 3. 2 Reciprocal verbs

Reciprocal verbs are formed with the prefix  $hiN2^{12}$ . They are single-voiced verbs and always take the Actor Voice which is indicated by the prefix ma-/na. With Class V1 and V2 bases, there are two patterns of formation: hiN2-+Base+-AN and hiN2-+C1/a/+Base. There is a tendency for bases that denote emotion, emotional action, and sensation to take the first type of formation, and bases which have more transitive meaning take the second. However, the conditions are not very clear. For example, Class V1 bases regei "laugh" and tonton "watch" form reciprocal verbs ma-hi-rege-an "to laugh at each other" and ma-hin-t-a-tonton "to watch each other". It is not clear how much difference in transitivity is found between the two bases. On the other hand, a slight difference in transitivity is observed between two Class V2 bases sibi2 "like" and bahiga "speak", which form reciprocal verbs ma-hin-sibi2-an "to like each other" and ma-him-b-a-bahiga "to argue", respectively.

Class V3 bases never take the first formation. They all take the second formation with partial reduplication but without the suffix. The base *tiaha?* takes the prefix *maN-/naN-* to form the Actor Voice verb *ma-niaha?* "to distribute", and when it undergoes the second reciprocal formation, *ma-n-a-niaha?* "to share" is formed. Examples (21), (22), and (23) are sentences with reciprocal verbs formed from Class V1, V2, and V3 bases, respectively.

(21) i-stefi bo i-aŋkuŋ=ne na-hiŋ-kaha?-en
SUBJ-Stevy and SUBJ-spouse=GEN.3sg AV.PST-RCP-cry-AN

ka nahisabu=te

because AV.PST-meet=COMP

"Stevy and her husband cried when they met." (Class V1)

(22) side dua siŋka-tuhaŋ ma-hin-t-a-tiho?

SUBJ.3pl two one-sibling AV.NPST-RCP-RED-/a/-know

"The two brothers help each other (*Lit*. The two brothers know each other)." (Class V2)

(23) isie ma-him-b-a-boaga? age? ni- aŋkuŋ=ne
SUBJ.3sg AV.NPST-RCP-RED-/a/-beat with GEN-spouse=GEN.3sg
"He and his spouse beat each other." (Class V3)

Table 8 contains examples of base classes and allomorphs found in reciprocal verbs, the progressive aspect forms, and imperative forms. The latter two are discussed in the following Sections 7. 3. 3 and 7. 3. 4.

# 7. 3. 3 The formation of the progressive aspect

As already mentioned, the progressive aspect functions as the test frame for classifying verbal bases. Class V1 bases take the circumfix ka-+Base+-ne, Class V2 bases take kapa-+Base+-ne, and Class V3 bases take kapaN-+Base+-ne. The only exception to this rule are Class V1 bases which begin with k. These take the prefix kapa-, not ka-. With this irregular formation, the base kuku forms a basic verb k-um-uku "to shout", and its progressive aspect form is kapa-kuku-ne. It is assumed that this exceptional rule is needed to avoid confusion. ka-kuku-ne has the same phonological feature as the partial reduplication that denotes "the manner of action" and the pronominal enclitic that denotes third person singular, as described in Subsection 7.2, which can be interpreted as "his manner of shouting."

This type of progressive aspect formation is only applicable to basic verbs in the Actor Voice. Undergoer voice verbs and derivational verbs take periphrastic formation in which kahagasa "now" + the linker nu is placed before a verb. Example (24) is a sentence with a causative verb in the Actor Voice, and Example (25) is one with a basic verb in the Goal Voice in the progressive aspect. Examples (26), (27), and (28) are examples of progressive aspects with the circumfix ka-/kapa-/k

- (24) toumata kahagasa nu ma-ki-rutan nu-manu? si-stenli people now LNK AV.NPST-CAUS-shoot OBL-chicken OBJ-Stenly "People are making Stenly shoot chickens."
- (25) side kahagasa nu upi?-an ni-ma?=nside

  SUBJ.3pl now LNK scold-GV GEN-mother=GEN.3pl

  "They are being scolded by their mother."
- (26) ka-bua=ku ake ie ka-duhaŋ-ne=ken
  POT-see=GEN.1sg water this PROG-increase-NE=COMP
  "It seems to me that this water is still increasing."
- (27) *i-terok* kapa-suba=ne su-gaheda
  SUBJ-Terok PROG-pray=NE LOC-church
  "Terok is praying in the church."
- (28) i-ma?=ne kapa-mokei-ne si-linda

  SUBJ-mother=GEN.3sg PROG-call-NE OBJ-Linda

  "Her mother is calling Linda."

## 7. 3. 4 Imperative form

As mentioned in Section 2, a verbal base can appear on its own in the imperative form. There are three other ways to form an imperative verb, all of which are described below:

- (A) Base-only
- (B) Base + the suffix -AI
- (C) The prefix paN- + Base
- (D) The prefix paN + Base + the suffix -AI.

Class V1 and V2 bases take imperative forms (A) and (B). In contrast, Class V3 bases can take all of the four forms, but (C) and (D) forms are the ones most commonly used. The suffix AI softens the imperative, sometimes making it sound like a recommendation. When Class V1 and V2 bases form a base-only imperative (A), the second singular agent appears as the subject (as in Example 29), a feature very much similar to Actor Voice. When an imperative is formed with the suffix AI, the agent is marked by a genitive case (Examples 30 and 32), like undergoer voice sentences. A Class V3 base-only imperative (A) marks the agent with a genitive case (Example 33) which is the same as the imperative form (B) (Example 29). The same case marking is observed when it takes the prefix PAN- and the suffix AI (imperative form D), as shown in Example (32). By contrast, the combination of Class V3 base and the prefix PAN- (imperative form C) demands subject marking on the agent noun, as shown in Example (31). As for the imperative form, base classification is relevant for both the morphological procedure and the syntactic features.

(29) tiki = te ikau e sleap = COMP SUBJ.2sg DP

"You sleep!"

(30) bokou-ai = nu = ken raku? = nu wash-AI = GEN.2sg = CONT clothes = GEN.2sg "Wash your clothes, will you?"

(31) pa-moso? ikau gula
PAN-put SUBJ.2sg sugar
"You put sugar!"

(32) pa-moso?-ai=nu gula
PAN-put-AI=GEN.2sg sugar
"You put sugar!"

(33) inung = nu = te kopi = ku drink = GEN.2sg = COMP coffee = GEN.1sg "You drink my coffee, would you?"

Table 8: Verbal bases and verb forms with allomorphs

	Base V1	Base V2	Base V3
The AV form with a voice-indicating affix	The infix -um-/-im- k-um-aha? "to cry" t-um-onton "to watch" t-um-uri "to drop in" k-um-uku? "to shout" t-um-agon "to sink" h-um-emban "to flame"	The prefix ma-/na- ma-sibi? "to like" ma-dadinihi? "to listen" ma-bahiga "to speak" ma-kina "to ask" ma-suba "to pray"	The prefix maN-/naN-ma-moaga? "to punch" ma-niaha? "to share" maŋ-gogaha? "to break" ma-mokei "to call"
Reciprocal verb/act together	hiN-+Base+-AN ma-hin-kaha?-en "cried together" ma-hin-tonton-an "watch eatch other" hiN-+C1/a/+Base ma-hin-t-a-turi "to visit each other" ma-hin-k-a-ku? "to shout at each other"	hiN-+Base+-AN ma-hin-sibi?-an "like each other ma-hin-dadih-an "listen to each other hiN-+C1/a/+Base ma-him-b-a-bahiga? "to listen to each other" ma-hin-k-a-kina "to ask each other"	hiN-+C1/a/+Base ma-him-ba-boaga? "to beat each other" ma-hin-t-a-tiaha? "to share with"
Progressive Aspect	ka-+Base+-NE ka-tagoŋ-ne "be sinking" ka-hembaŋ-ne "be flaming" kapa-+Base (with the onset /k/) +-AN kapa-kuku?-ne "be shouting"	kapa-+Base+-NE kapa-suba-ne "be paraying" kapa-kina-ne "be asking"	kapaN-+Base+-NE kapaŋ-gogahaʔ-ne "be breaking" kapa-mokei-ne "be calling"
Imperative Form	Base kuku? "shout!" Base + -AI tontoŋ-ai "Look!"	Base kina "Ask!" Base+-AI dadiŋih-ai "Listen!"	Base pokei "Call!" Base+AI poke-ai "Call!" paN+Base pa-mokei "Call!" paN+Base+-AI pa-moke-ai "Call!"

# 7.3.5 Summary

Bantik verbal bases have a rich morphology. It is clear from the above discussion that voice-indicating affixes and derivational affixes are selected according to the base classes.

It is necessary to categorize verbal bases into at least three classes in order to grasp the affixation patterns. The syntactic features of the imperative construction are also relevant to the base classes, as presented in 7.3.4.

The semantic features of each base class also need to be investigated. At a glance, Class V1 bases and most bases in Class V2 exhibit semantically intransitive meaning. Class V3 bases predominantly have transitive meaning. However, there are exceptions to the above rule, and a detailed discussion is needed.

#### 8. Conclusion

There have been extensive studies on root, stem, or base classification in Philippine languages (cf. Chandler 1974, Klimenko and Endriga 2016, among others). For Bantik morphology, base-level classification is necessary for a clear and efficient description. First, the open class bases and closed class bases are distinguished by the fact that the former can take affixes, whereas the latter cannot. Second, the subcategorization of each open class base explains the affixation pattern. Third, the morpho-syntactic features of verbs are explained by the base class from which they are formed.

Bases that can become nouns without any affixation are classified as Class N. Bases that can become adjectives without any affixation are classified as Class A1. Bases that form adjectives by the prefixation of ma- are Class A2 bases. There are three verbal bases: Classes V1, V2, and V3. Verbal bases do not appear by themselves, except in imperative clauses. Only the eight bases that belong to Class V3 appear without any affixation in the past tense of the Conveyance Voice. Classes V1 and V2 bases have semantically intransitive meaning, and Class V3 bases have transitive meaning, but this is not always the case. Inherent base classification should be acknowledged in order to explain the different affixation patterns, as in the cases of the progressive aspect forms, reciprocal verbs, and many others.

#### Abbreviations

1sg	First person singular
1pl	First person plural
2sg	Second person singular
3sg	Third person singular
3pl	Third person plural
ADJVZ	Adjectivising prefix ma-
-AI	The imperative suffix - \!\!AI

APPL Applicative AV Actor Voice CAUS Causative =COMP The completive aspect clitic *te*=CONT The continuative aspect clitic *ken* 

CV Conveyance Voice
DP Discourse particle

EXC The prefix -na that shows the excessiveness

GEN The genitive marker ni-

GV Goal Voice
IMP Imperative
INC Inclusive
LNK Linker

-NE A part of the circumfix ka-/kapa-/kapaN-+Base+-NE or nominalizing suffix -ne

NPST The non-past tense

OBJ The object marker si-/su-

OBL The oblique noun marker ni-/nu-

PA- The causative/instrumental/locative prefix pa-

PAN- The applicative/causative/instrumental/locative prefix *paN*-

PST The past tense

RCP The reciprocal prefix *hiN2*-

RED Reduplication

SUBJ The subject marker i-

VL The prefix tin-/tiŋka- that forms a voluntary verb

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#### [Notes]

- For example, pa·higi "well" and pahigi "knife" consist of a minimal pair. (Pitch accent nucleus is shown by an apostrophe at the beginning of the syllable.)
- 2) For example, nsao "over there" (more or less the same height).
- The Bantik verbs, by definition, have tense opposition. Adjectives and verbs are distinguished by this factor
  as adjectives do not have tense opposition.
- 4) The suffix -AN has three phonologically conditioned allomorphs, -an, -en, and -n. When the base ends with a mid or open vowel, -n is attached. If the final syllable of the base has the vowel /a/, -en is attached. -An is found elsewhere
- 5) The suffix -AI has three phonologically conditioned allomorphs, -ai, -ei, -i. When the base ends with a mid or open vowel, -i is attached. If the final syllable of the base has the vowel /a/, -en is attached. -Ai is found elsewhere.
- 6) So far, only eight basic verbs are confirmed to have Conveyance Voice forms. They are *bihei* (give), *buni* (hide), *poso?* (put), *diŋan* (bring), *tondo* (push), *turau* (leave something), *suŋi?* (feed), and *oŋkoho?* (hand something).
- 7) The final consonant N in maN-/naN-, as mentioned earlier, denotes the substitution of the first consonant of the base with the homo-organic nasal or the insertion of a nasal that is homo-organic with the first consonant of the base. When a base begins with a vowel, the velar nasal /ŋ/ is inserted. If a base begins with either /b/ or /p/, it is substituted by /m/, or /m/ is inserted before them. Similarly, a nasal counterpart of /s/, /t/ and /d/ is /n/, and that of /k/ and /g/ is /ŋ/. However, in Bantik phonological system, there is no nasal substitute for the flap and the glottal fricative.
- 8) The base unday ends with a velar nasal, but it is assumed that it ended with a bilabial nasal (cf. Sneddon 1984, Sneddon 1993). It is one of the innovations of the Bantik language in which word-final bilabial nasals are replaced by the velar nasal. In the cases of affixation, the original /m/ still appears.
- 9) Pronouns show partial reduplication in which the first and the second syllables are repeated. For example, the reduplicated form of the second person singular ikau is ika-ikau, and for the third person singular isie, it is isi-isie. In the sentence, ika-ikau may-insuei berenan (RED-2sg AV-finish work) "(It's only) you (that) finishes the work," the partially reduplicated form emphasizes that the person who finishes the work is the one referred to by the second singular pronoun.
- 10) With this type of partial reduplication, the first syllable and the onset and nuclear of the second syllable is repeated. /σ/ indicates the first syllable; C2, the onset of the second syllable; and V2, the vowel of the second syllable.
- 11) The Goal Voice form, *bagar-en* is an irregular form. The base is *bagai*, and a flap substitutes the last vowel /i/ before the suffixation occurs. This is the only case of a flap substitution observed in Bantik morphology.
- 12) The final /N2/ in this prefix, described as /N2/, has distinctive phonological features from /N/ in the other prefixes like paN- or maN-. /N2/ stands for homo-organic nasal insertion, and never the substitution. The phoneme /m/ is inserted before /p, b/, /n/ before /s, t, d/, and /ŋ/ before /k, g/. The velar nasal is also inserted before the glottal fricative /h/. No nasal is inserted before bases that begin with /r/ and the nasals / m, n, ŋ/. So, when the prefix maN- is attached to the base boaga?, ma-moaga? (to punch) is formed, but when the prefix hiN2- is attached, the result is ma-him-b-a-boaga? (to punch each other).