

# The phonology, morphology, and syntax of Sundanese

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**ABSTRACT:** Sundanese is an indigenous language that is spoken in West Java, Indonesia. This study considers the phonology, morphology, and syntax of Sundanese based on a corpus of more than two hundred words. It specifically aims to contribute to the literature of the language by providing some linguistic characteristics of Sundanese and comparing results to what has been previously introduced in the literature. Some previous studies of Sundanese have extensively covered the syntactic and some morphological structures of the language, but only a few studies have covered the phonological aspects. This study aims to provide a comprehensive analysis of the morphological, syntactic, and phonological aspects of Sundanese based on the production of a native speaker of the language. The participant translated all words into Sundanese and provided the singular and the plural forms for each word in the list. The participant also produced sentences using the same words in the corpus. Data were then observed, and patterns were grouped and categorized for analysis. Results showed some similarities and differences to the findings of previous work in the field. Conclusions were drawn and comparisons were made where appropriate.

**KEYWORDS:** Sundanese; indigenous languages; phonetic features; Austronesian languages

## 1. Introduction

Sundanese, an indigenous language in Indonesia, is spoken in West Java and belongs to the family of Austronesian languages. Austronesian is one of the two largest language families in the world. The other language family is the Niger-Congo. Sundanese people form one of the largest ethnic groups in Indonesia, the second one after the Javanese. There are around 32 million speakers of Sundanese worldwide (Eberhard et al., 2019). One of the features of Sundanese is that it has speech levels. That is, it has different levels of politeness. To elders, parents, and younger generations, the polite form is preferred. When speaking to friends, a less polite speech is used. Impolite form of speech is only used when talking to animals, but not humans (Van Syoc, 1959). Recently, there has been a noticeable impact on the use of Sundanese speech levels by the younger generations which poses a threat to the stability of the language. Many Sundanese families prefer to teach their children the dominant languages, Indonesian and English, and gradually abandon their own native language (Indrayani, 2011). Wurm (2002) showed that a language becomes unsafe when it is used by the younger generations in limited domains only, not in all domains. In Wurm's terms, Sundanese would be considered unsafe and potentially an endangered language as the youth preferred using the dominant languages, not their own. Alwasilah (2008) also supported that most Sundanese people were showing negative attitudes towards their mother tongues. Families showed a strong tendency towards teaching their children the 'prestigious' English language at

the expense of their local languages (Zein, 2019). This, if continued, would pose a threat to the stability of Sundanese and result in causing the language to become endangered.

This paper sheds light on the Sundanese language and presents a comprehensive phonological, morphological, and syntactic analysis of Sundanese structures. The study aims to contribute to the literature of the language by providing some linguistic characteristics. The study also aims to compare the findings to what has been introduced in the literature regarding Sundanese linguistic characteristics.

In the literature on Sundanese, several studies have discussed syntactic, morphological, or discourse-oriented aspects of Sundanese (e.g., Robins, 1965; Hardjadibrata, 1985; Bangga and Doran, 2021). However, none of the previous works have included a focused and comprehensive analysis of syntactic, morphological, and phonological features of the language based on a set of words or corpus. This study aims to fill a gap and provide a comprehensive analysis including the phonology and phonotactic constraints of Sundanese by investigating more than two hundred words of the Swadesh list. In particular, the study aims to answer the following questions:

- a) What are the phonotactic constraints of the Sundanese sound system?
- b) How words, phrases, and sentences are formed in the language?
- c) How does the analysis of the data provided in this study differ from what has been introduced in the literature on Sundanese?

Results presented here are expected to overlap quite significantly with previous studies in the field, though with some differences. Considering that the current study has a descriptive nature, and to avoid redundancy, the discussion of previous work on Sundanese will be saved for later and presented at the end of the paper in the discussion section where relevance to previous findings will also be made.

## **2. Method**

This research employs a descriptive analysis of collected data to investigate how sounds, words, and sentences are structured in Sundanese. In particular, the analysis highlights the phonology, morphology, and syntax of Sundanese.

### **2.1. Participants**

Data of this study is based on the production of a single male linguist who is a native speaker of Sundanese. The participant was born in Garut, a city located in the south of West Java, and spent his childhood in Pangandaran. The participant speaks three languages fluently: Indonesian, Sundanese, and English. He learned Indonesian at the age of six because it was the official language taught in schools and started learning English at the age of thirteen.

### **2.2. Research instruments**

Two hundred words of the Swadesh list (see Appendix) were recorded by the participant who was a native speaker of Sundanese. The participant was asked to read the English word first, followed by its equivalent in the Sundanese language. Then, the participant provided the singular and plural forms for each word. Recordings were done using Praat software on MacBook. The microphone was placed 8" inches to the side of the speaker's mouth. Words and sentences were then transcribed and provided in tables for analysis.

### **2.3. Procedures**

The participant translated more than two hundred words of the Swadesh list into Sundanese and

provided different sentences including these words. Data were then transcribed by the author and revised by the participant for accuracy purposes. Structures were observed and analyzed and patterns were highlighted to provide a thorough phonological, morphological, and syntactic analysis of Sundanese. The phonological analysis covered the language inventory and highlighted some phonological processes that took place in Sundanese. The morphological analysis covered the affixation system that nouns, verbs, and adjectives underwent. Finally, the syntactic analysis investigated the syntactic representations and word order of nouns and prepositional phrases, relative clauses, and passive constructions in Sundanese.

### 3. Results

Results are presented below in three subsections: the phonology of Sundanese, the morphology of Sundanese, and finally the syntax of Sundanese.

#### 3.1. The phonology of Sundanese

##### 3.1.1. Consonants

Based on the transcription of the data provided, **Table 1** presents the consonants that are found in the language inventory of Sundanese.

**Table 1.** Consonants of Sundanese.

	Bilabial	Labiodental	Dental	Alveolar	Post-alveolar	Palatal	Velar	Uvular	Glottal
Plosives	p	b		t	d		k	g	ʔ
Nasal		m			n	ɲ	ŋ		
Fricative				s					h
Affricates				tʃ			dʒ		
Tap					r				
Lateral				l					
Approximant		w				j	w		

Data included seven stops: the voiceless bilabial /p/, the voiced bilabial /b/, the voiceless alveolar /t/, the voiced alveolar /d/, the voiceless velar /k/, the voiced velar /g/, and the voiceless glottal stop /ʔ/. Some consonants were found to be inserted in certain environments, such as the glottal stop /ʔ/, and the two glides /w/ and /j/. These environments will be discussed later when phonological processes are considered.

Data also showed four nasal consonants: the bilabial /m/, the alveolar /n/, the palatal /ɲ/, and the velar /ŋ/, two fricatives: the alveolar /s/ and the glottal /h/, two approximant glides /w/ and /j/, a trill /r/ and a lateral /l/. Moreover, data included two affricates /tʃ/ and /dʒ/, as the following words show:

- (1) tʃəpil            ‘ear’
- andʒən        ‘you’ (singular)
- sutʃaʔ        ‘eye’
- hidʒiʔ        ‘one’

All consonants of Sundanese are distinct phonemes. Consider the following examples of minimal pairs or near-minimal pairs:

- (2) Alveolars

- |        |            |
|--------|------------|
| na.ɛʔ  | ‘to go up’ |
| sa.ɛʔ  | ‘good’     |
| ta.ʊn  | ‘year’     |
| da.ʊn  | ‘leaf’     |
| ra.hɪt | ‘swell’    |
| la.wʊt | ‘sea’      |
- (3) Bilabials
- |            |          |
|------------|----------|
| pun.bi.jaŋ | ‘mother’ |
| bun.tut    | ‘tail’   |
| ma.wut     | ‘die’    |
| ba.paʔ     | ‘father’ |
- (4) Velars
- |         |            |
|---------|------------|
| ma.nuk  | ‘bird’     |
| gu.nuŋ  | ‘mountain’ |
| ʔən.dʊg | ‘egg’      |
| tan.dʊk | ‘horn’     |
- (5) Glottal
- |           |       |
|-----------|-------|
| ʔa.wʊn    | ‘bad’ |
| ha.li.mʊn | ‘fog’ |
- (6) Palatals
- |        |        |
|--------|--------|
| ŋu.ŋah | ‘bite’ |
| u.jah  | ‘salt’ |
- (7) The glide /w/:
- |        |       |
|--------|-------|
| ʔa.wʊn | ‘bad’ |
| wa.dol | ‘lie’ |

Consonant clusters are possible in Sundanese. Consider the following words:

- (8)
- |              |                 |
|--------------|-----------------|
| manɛhnaʔ     | ‘he (singular)’ |
| kandəl       | ‘thick’         |
| sampɪt       | ‘narrow’        |
| uraŋsararɛaʔ | ‘we’            |
| istriʔ       | ‘woman’         |
| murankaliʔ   | ‘child’         |
| taŋkal       | ‘tree’          |

### 3.1.2. Vowels

There are ten distinct vowels of Sundanese as presented in **Figure 1**.

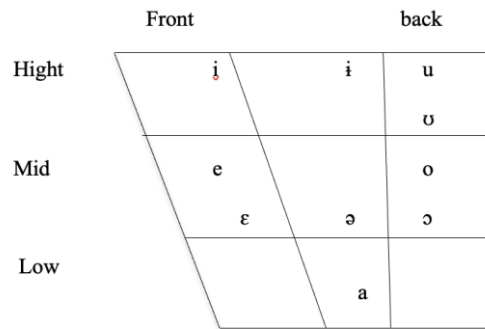


Figure 1. Vowel chart of Sundanese.

Consider the following minimal or near-minimal pairs:

- (9) tuŋ.kat 'stick'  
 dʒu.kut 'grass'  
 sɪ.kɪt 'sharp'  
 tʃa.kət 'near'  
 bun.duk 'short'  
 tan.duk 'horn'  
 lɛ.tah 'tongue'  
 li.pɛr 'liver'  
 ŋom.bah 'wash'  
 ŋum.bəŋ 'float'  
 tʃə.liʔ 'ear'  
 ta.liʔ 'rope'

Acoustic analysis of the two vowels [o] and [ʊ] show that they sound very similar with the former being more rounded.

Vowel combinations are also possible in Sundanese. Consider the following words where the diphthong /aɪ/ is present:

- (10) kaɪ 'wood'  
 ʔɔraɪ 'snake'  
 ŋōdʒaɪ 'swim'

Vowel clusters are also common in Sundanese. Consider the following words:

- (11) uraŋsararɛaʔ 'we'  
 tʃae 'water'

### 3.2. Syllable structure

According to the data collected, most Sundanese words consist of two syllables. However, words with one or more than two syllables are also acceptable. The minimum syllable structure that can exist in Sundanese is V. Sundanese syllables can either be V, CV, VC, or CVC. Examples of each form are provided below.

- (12) V  
 i.tuʔ 'that'  
 u.jah 'salt'

(13) CV

li.maʔ 'five'  
 pɪ.lah 'split'

(14) VC

ɔŋ.kɛk 'vomit'  
 ʒs.triʔ 'woman'

(15) CVC

lam.biʔ 'mouth'  
 nam.piʔ 'smell'

Onsets seem to be optional, as shown in (16), where both first and second syllables with no onsets exist in the data:

(16) a.kar 'root'  
 a.guŋ 'big'  
 o.pat 'four'  
 wa.ʊs 'tooth'  
 ta.ʊn 'year'

There are some restrictions, however, on what segments can go in onset vs. coda positions in Sundanese roots. In CV.CVC syllable structure, almost any consonant is allowed to occur as the onset of either the first or second syllables, see **Table 2**. Only the glide /j/ does not appear as an initial onset in CVC syllable structure.

**Table 2.** Sundanese onsets in initial and medial syllable structures.

Sounds	Initial onset <u>CV.CVC</u>	Medial onset CV. <u>CVC</u>	Sounds	Initial onset <u>CV.CVC</u>	Medial onset CV. <u>CVC</u>
/t/	tan.dək 'horn'	lɛ.tah 'tongue'	/s/	sal.dʒʊʔ 'snow'	ŋō.sok 'rub'
/k/	ko.lan 'what'	su.kuʔ 'leg'	/d/	du.wəʔ 'two'	bun.duk 'short'
/n/	nu.dʒʊs 'stab'	bi.nih 'seed'	/h/	hi.dʒiʔ 'one'	ŋɪ.ŋ.hap 'breathe'
/m/	mas.ta.kaʔ 'head'	i.mah 'house'	/l/	li.maʔ 'five'	pɪ.lah 'split'
/p/	pɪ.lah 'split'	o.pat 'four'	/tʃ/	tʃə.liʔ 'ear'	su.tʃaʔ 'eye'
/b/	bun.duk 'short'	kəm.baŋ 'flower'	/dʒ/	dʒu.kut 'grass'	an.dʒən 'you'
/ŋ/	ŋɪ.ŋ.hap 'breathe'	ŋu.ŋah 'bite'	/r/	ra.hɪt 'swell'	mu.ran.kaliʔ 'child'
/g/	gɪ.tih 'blood'	a.guŋ 'big'	/j/	NA	u.jah 'salt'
/ŋ/	ŋō.sok 'rub'	ŋɪ.ŋhap 'breathe'	/w/	waʊs 'tooth'	ma.wut 'die'
/ʔ/	ʔən.dəg 'egg'	bu.ʔuk 'hair'			

Moreover, the coda position of the first syllable in CVC.CVC syllable structure or the first and second

syllables in CV(C).CVC.CVC is/are restricted to nasals (17), and few other segments such as: /r/, /h/, /l/ and /s/, as in (18) (these four words are the only ones found in the data that allow other segments to exist as codas).

- (17) bun.duk            'short'  
       kəm.baŋ           'flower'  
       ŋɪŋ.hap          'breathe'
- (18) ma.nɛh.naʔ      'he'  
       maŋ.ta.kaʔ       'head'  
       saɫ.dʒʊʔ        'snow'  
       ka.mir.ka.ʔan    'full'

Most segments, on the other hand, can occur as codas for final syllables in Sundanese roots, with the exception of palatals /ŋ/ and /j/, affricates /tʃ/ and /dʒ/, the voiced stop /b/, and the glide /w/. Consider the following words:

- (19) an.dʒən           'you'  
       hi.dʒiʔ           'one'  
       sə.ʔər            'many'  
       dʒu.kut           'grass'  
       gi.tih             'blood'  
       ʔən.dəg          'egg'  
       hi.rup            'live'  
       nu.dʒʊs          'stab'  
       kəmbaŋ          'flower'  
       u.jah             'salt'  
       bun.duk          'short'  
       mmam            'eat'

### 3.3. Phonological processes

#### 3.3.1. Dissimilation

The first phonological process observed in the data is dissimilation, where two sounds that are similar become different. Dissimilation in Sundanese takes place when a word's root contains the sound /r/. One of the possible ways of forming plurals in Sundanese is by inserting the infix /ar/ (few) or /arar/ (many). However, when a word's root has the sound /r/ in any position, /r/ dissimilates to /l/. Consider the following examples:

(20) Singular	Plural(few)	Plural(many)	Meaning
na.r̥ik	n-al-arik	n-alal-arik	'pull'
sɪ.r̥iʔ	s-al-ɪriʔ	s-alal-ɪriʔ	'laugh'
kə.tər̥	k-al-ətər̥	k-alal-ətər̥	'dirty'
mi.kir̥	m-al-ikir̥	m-alal-ikir̥	'think'
ŋa.lir	ŋ-al-alir	ŋ-alal-alir	'flow'

#### 3.3.2. Assimilation

It seems that the insertion of the plural markers few and many, (-ar) and (-arar) respectively, not only dissimilates /r/ to /l/ when /r/ occurs anywhere in the root, but also assimilates to /al/ and /alal/ when

/l/ starts a word. Data show that unlike /r/, the position of /l/ in a word's root matters. That is, when /l/ occurs word medially or finally, no changes take place (21). However, when /l/ occurs word initial, a process of assimilation takes place (22). Consider the following examples:

(21) Singular	Plural(few)	Plural(many)	Meaning
p̄i.lah	p-ar-īlah	p-arar-īlah	'split'
mεη.kəl	m-ar-εηkəl	m-arar-εηkəl	'turn'

Now consider the following examples where /l/ is initial:

(22) Singular	Plural(few)	Plural(many)	Meaning
l̄əmpaŋ	l-al-əmpaŋ	l-alal-əmpaŋ	'walk'
l̄i mis	l-al-i mis	l-alal-i mis	'smooth'

### 3.3.3. Nasal assimilation

When floating nasal consonants (such as the prefix /-ŋa/ or /-ŋ/) are attached to verb roots in the active form, the nasal segment assimilates with the first consonant of the root to share the same place of articulation. In Sundanese, the passive form is formed by the attachment of the prefix /-di/ to the underlying representation of the root. Thus, it is always helpful to consider the passive structure to explain any phonological process that take place in the language. As indicated in the language inventory, there are four nasal consonants in Sundanese /m/, /n/, /ŋ/, and /ɲ/. Examples for each case of nasal assimilation is presented below.

When a root starts with a voiceless bilabial stop /p/, the association of a nasal consonant will undergo an assimilation process and change to become a voiced nasal bilabial /m/ that shares the same place of articulation as /p/. Consider the following example:

(23) The voiced nasal bilabial /m/ + /pikir/	
mikir	'think'
di-pikir	passive form

Similarly, when a root starts with a voiceless alveolar stop /t/, the nasal prefix /ŋa/ or /ŋ/ assimilates and changes to the voiced alveolar nasal /n/, which shares the same place of articulation as /t/, as presented in (24).

(24) The voiced alveolar nasal /n/ + /tələʔ/		
Word	Passive form	Gloss
nələʔ	di-tələʔ	'see'

The voiced velar nasal /ŋ/, on the other hand, undergoes assimilation when added to roots that start with either the voiceless velar stop /k/ or the voiceless glottal stop /ʔ/:

(25) The voiced velar nasal /ŋ/ + /kuŋah/ and /ʔampʔ/		
Word	Passive form	Gloss
kuŋah	di-kuŋah	'bite'
ŋampʔ	di-ŋampʔ	'smell'
ŋəlap	di-ŋəlap	'wipe'

Similarly, the nasal consonant in the prefix /-ŋ/ is changed to the voiced palatal nasal /ɲ/ when it is added to roots that start with either the voiceless alveolar stop /s/ or the post-alveolar affricate /tʃ/. Consider example (26) below.

(26) The voiced palatal nasal /ɲ/ + /sɪŋhap/ and /tʃiduh/	
---	--



Word	Passive form	Gloss
ŋiŋhap	di-siŋhap	'breathe'
ŋiduh	di-tʃiduh	'spit'

Only one word in the data disagrees with this dissimilation process presented here, and that is the word: /mmam/ 'eat', where the passive form is /di-mam/. For this word, the nasal /m/ is allowed to occur as the first segment in the root in this exceptional case, and since it is the only word found in the data, it is not possible to make a generalization.

### 3.3.4. Insertion

Insertion or epenthesis is observed in four environments in the Sundanese data. The first environment is when the root of the verb starts with a vowel, a glottal stop is inserted when making the passive form by adding the prefix di- plus a glottal stop. Consider the following example:

(27) Word	Passive form	Gloss
oŋkɛk	di-ʔoŋkɛk	'vomit'

Another environment of insertion takes place in open-syllable words. For such words, a glottal stop is being inserted after the last vowel, as exemplified in (28).

(28) didijəʔ	'here'
ijəʔ	'this'
sahaʔ	'who'
hatɛʔ	'heart'
limaʔ	'five'
satuʔ	'animal'
istriʔ	'woman'

Moreover, a glottal stop is being inserted when two identical vowels occur in CV.VC syllable structures. Consider the following words:

(29) buʔuk	'hair'
ʔɛʔɛt	'drink'
tuʔur	'knee'
kəmɪrkaʔan	'full'
səʔər	'many'

The last environment of insertion is observed in the data when plural forms are considered. One way to form plurals in Sundanese is by reduplicating the first CV of the root and adding the suffix (-an) (more discussion on plurals is provided in the morphology subsection). Three different consonants might be inserted in the derived plural forms based on vowel quality: The glottal stop /ʔ/, and it is usually inserted as the coda for words that end with vowels, or used to separate two identical vowels, see (30):

(30) mastakaʔ	'head'
mamastakaʔan	'heads' [plural]

Second, the glide /j/ and it is usually inserted in words that end with the vowel /i/, see (31):

(31) tʃəliʔ	'ear'
tʃətʃəlijan	'ears' [plural]

Third, the glide /w/ and it is usually inserted in words that end with the high back vowel /u/.

Consider the following words:

- (32) sukuʔ                    'leg'  
       susukuwan            'legs' [plural]

### 3.3.5. Vowel nasality

Sundanese vowels get nasalized after nasal consonants. This is the case with all vowels following or preceding nasal segments. Here are some words that include nasal vowels due to nasality spread:

- (33) ŋōsok                    'rub'  
       ʔaŋi~n                  'wind'  
       suŋɛ~ʔ                'river'  
       ŋōdʒaɪ                'swim'

## 4. The morphology of Sundanese

### 4.1. Nouns

Nouns in Sundanese can either be singular or plural. There are two ways to make nouns plural in Sundanese: a) reduplicate the first syllable CV of the root, then add it to the root and insert the suffix (-an) (35), and b) insert the infix (-ar) 'few' or (-arar) 'many' after the first segment of the root if it starts with a consonant, or as a prefix at the beginning of the root if it starts with a vowel (36).

- |               |              |              |            |
|---------------|--------------|--------------|------------|
| (34) Singular | Plural       | Gloss        |            |
| buwah         | bu-buwah-an  | 'fruit'      |            |
| tuŋkat        | tu-tuŋkat-an | 'stick'      |            |
| (35) Singular | Plural(few)  | Plural(many) | Gloss      |
| wəŋi          | w-ar-əŋi     | w-arar-əŋi   | 'night'    |
| gunuŋ         | g-ar-unuŋ    | d-arar-unuŋ  | 'mountain' |
| əŋkɛk         | ar-əŋkɛk     | arar-əŋkɛk   | 'vomit'    |
| ɛbug          | ar-ɛbug      | arar-ɛbug    | 'sleep'    |

To indicate Agentive nouns, nouns that do the action described by verbs, the word *tukaŋ* must precede the noun to modify it, see examples below.

- |                   |         |                 |
|-------------------|---------|-----------------|
| (36) <i>tukaŋ</i> | tʃauʔ   |                 |
| modifier          | banana  | 'banana seller' |
| <i>tukaŋ</i>      | ŋaʒar   |                 |
| modifier          | teacher | 'teacher'       |
| <i>tukaŋ</i>      | gəlut   |                 |
| modifier          | fighter | 'fighter'       |

An interesting observation of this study is on the attachment of the suffix (-na), a possessive marker, to nouns to indicate possessiveness for the third person only, unless if it is followed by the first-person singular pronoun *sim kuriŋ* to indicate the first singular pronoun 'my'. Consider the following example where the singular possessive marker (-na) is attached to the word *taŋkal* 'tree':

- |                    |                  |
|--------------------|------------------|
| (37) <i>taŋkal</i> | <i>sim kuriŋ</i> |
| tree-possessive    | my               |
| 'My tree'          |                  |
| <i>taŋkal-na</i>   | <i>sim kuriŋ</i> |

tree-possessive    my (owned by me)  
'My tree'

Or just:

- (38) taŋkal-na  
tree-possessive  
'His/Her tree'

In example (38), the possessive marker (-na) is attached to the noun with no other pronouns following it. Thus, the meaning is understood to be for the third person pronouns only.

Now consider the same sentences for the plural word ta-taŋkal-an 'trees' where the possessive marker /-na/ becomes nana for noun-possessive marker agreement: (note that the first syllable is reduplicated for plurality).

- (39) ta-taŋkal-an    sim kuriŋ  
tree-(plural)    my  
'My trees'  
ta-taŋkal-an-nana            sim kuriŋ            (more definite)  
tree(plural)- possessive    my (owned by me)  
'My trees'

Or just:

- (40) ? ta-taŋkal-an-nana  
tree(plural)-possessive  
'His/Her trees'

But not:

- (41) \* ta-taŋkal-an-na    sim kuriŋ

Furthermore, the previous examples show that there must be an agreement of nouns and possessive markers; that is, the singular possessive marker /-na/ must be attached to singular nouns, and the plural possessive marker /nana/ must be attached to plural nouns. Violations of this rule lead to ungrammatical sentences (41).

Not only agreement is important here, but also the order of the plural circumfix (reduplicated syllable+root+an) and the possessive marker /nana/. The plural possessive marker /nana/ must always follow the circumfix, and never precede it or even precede a portion of it. Consider the following:

- (42) ta-taŋkal-an-nana            sim kuriŋ  
tree(plural)-Possessive    my (owned by me)  
'My trees'  
(43) \* ta-taŋkal-nana-an            sim kuriŋ  
tree(plural)-Possessive    my (owned by me)  
'My trees'

A final point to make here about nouns is the Subject-Verb agreement. Nouns in Sundanese must always agree with verbs; that is, singular subjects require singular verbs, and plural subjects require plural verbs, as the following examples indicate.

- (44) gogog            lumpat            di    imah  
dog-singular    run-singular            in    house  
'The dog runs inside the house'

(45) səʔər          gogog    lu-lompat-an      di    imah  
 many-plural dog      run-plural          in    house  
 ‘The dogs run inside the house’

(46) \*gogog      lu-lompat-an      di    imah  
 dog-singular run- plural          in    house  
 ‘The dog runs inside the house’

Example (46) shows that it is ungrammatical to have a singular subject followed by a plural verb. Similarly, nouns must also agree in number with adjectives. See (47) and (48) below.

(47) Plural nouns and adjectives:

iʔ-imah-an                  anu                  b-al-ərəsih  
 house-SUF (plural)    that-REL          clean-Infix(plural)  
 ‘Many houses are clean’

(48) Singular nouns and adjectives:

imah                  anu                  bərəsih  
 house(singular)    that-REL          clean-Adj(singular)  
 ‘A clean house’

## 4.2. Adjectives

Sundanese adjectives can also be singular or plural. Consider the following examples:

(49) Singular adjectives

bodas          ‘white’  
 basih          ‘wet’  
 b̄ir̄im          ‘red’  
 puruk          ‘rotten’

(50) Plural adjectives

Plural (few)	Plural (many)	Gloss
b-ar-odas	b-arar-odas	‘white’
b-ar-asih	b-arar-asih	‘wet’
b-ar-ir̄im	b-arar-ir̄im	‘red’
p-al-uruk	p-alal-uruk	‘rotten’

Example (50) shows that adjectives can be pluralized by the infixation of (-ar/al) or (-arar/alal) after the first consonant of the word.

Moreover, to form verbs that are derived from adjectives (e.g., ‘to become’), the circumfix (ŋa + Adj + an) is used. Note, however, that no objects must be present with this circumfix, as shown in the following sentences:

(51) imah-na                  Abul      ŋa-bodas-an  
 house-Possessive          name    to become (causative)-white  
 ‘Abul’s house becomes white’

(52) bal      ŋa- b̄ir̄im-an  
 ball      to become (causative)-red  
 ‘The ball becomes red’

The attachment of the possessive marker /-na/ to the word imah in example (51) indicates that it refers to the third person, which happens to be ‘Abul’ in this sentence or just ‘his/her house’ when no

overt noun is present.

However, for causative forms, a different circumfix is used ( $\eta a + \text{Adj} + k\dot{i}n$ ). This circumfix, which indicates the meaning of ‘to make something be something’, requires an object following it. Consider the following example where square brackets indicate optionality:

- (53)  $\text{sim kuri}\eta$      $\eta a\text{-bodas-}k\dot{i}n$                        $\text{imah-na}$                       [Abul]  
 I                      to make(causative)-white    house-Possessive                      name  
 ‘I make Abul’s house white’

Comparative and superlative adjectives are of another case. To form comparative adjectives, the word  $\text{lan}\eta\text{kuj}$  must precede the adjective. As shown in (54) and (55) below:

- (54)  $\text{bal b}\dot{i}r\dot{i}m$                       vs.                       $\text{bal lan}\eta\text{kuj b}\dot{i}r\dot{i}m$   
 ball red    ball comparative redder  
 ‘The ball is red’    ‘The ball is redder’
- (55)  $\text{bad}\zeta\text{i}\eta$   $\text{bodas}$                       vs.                       $\text{bad}\zeta\text{i}\eta\text{-na lan}\eta\text{kuj bodas}$   
 squirrel white    squirrel-the comparative white  
 ‘A squirrel is white’    ‘The squirrel is whiter’

Interestingly, the suffix  $/\text{-na}/$  that is attached to the word  $\text{bad}\zeta\text{i}\eta\text{-na}$  ‘squirrel’ in example (55) differs from the possessive marker  $/\text{-na}/$ .  $/\text{-na}/$  as it is used in example (55) serves a different function, and that is to refer to a specific entity. In other words, ‘a specific squirrel’ compared to  $\text{bad}\zeta\text{i}\eta$  ‘a squirrel’.

Furthermore, when comparing one item to another, the circumfix ( $\text{lan}\eta\text{kuj} + \text{Adj} + \text{ti batan}$ ) is used. Consider the following examples:

- (56) A                       $\text{lan}\eta\text{kuj}$      $\text{g}\dot{i}l\dot{i}s$                       ti    batan    B  
 name    more- comparative                      beautiful                      than- comparative                      name  
 ‘A is more beautiful than B’
- (57)  $\text{bad}\zeta\text{i}\eta$   $\text{lan}\eta\text{kuj}$      $\text{bodas}$                       ti    batan     $\text{sim kuri}\eta$   
 squirrel more-comparative                      white                      than-comparative                      me  
 ‘A squirrel is whiter than me’

On the other hand, to form superlative adjectives, the circumfix ( $\text{pa}\eta + \text{adj} + \text{na}$ ) is attached. Consider the following:

- (58)  $\text{imah anu pa}\eta$      $\text{bodas-na}$   
 house    that superlative                      white-superlative  
 ‘The whitest house’
- (59)  $\text{imah anu pa}\eta$      $\text{ag}\dot{a}\eta\text{-na}$   
 house    that superlative                      big- superlative  
 ‘The biggest house’
- (60)  $\text{bal-na}$                       Abul     $\text{pa}\eta$      $\text{b}\dot{i}r\dot{i}m\text{-na}$   
 ball- Possessive    name    superlative                      red-superlative  
 ‘The reddest ball is Abul’s’

### 4.3. Verbs

Just like nouns and adjectives, plural verbs are formed by the insertion of (ar) ‘few’ and (arar) ‘many’ or their alternations (al) and (alal), respectively. In roots that start with consonants, (ar) and (arar) are inserted after the first consonants (61). On the other hand, when roots start with vowels, (ar) and (arar)

are prefixed to the roots (62):

	Singular	Plural(few)	Plural(many)	Gloss
(61)	mawut	m-ar-awut	ma-arar-awut	'die'
	naliʔ	n-ar-aliʔ	n-arar-aliʔ	'tie'
(62)	ʔŋkɛk	ar-ʔŋkɛk	arar-ʔŋkɛk	'vomit'
	ɛbug	ar-ɛbug	arar-ɛbug	'sleep'

Morphemes can be attached to Sundanese verbs to indicate different meanings and functions. For example, among the different functions of the suffix /-an/ in Sundanese, it can be added to the active form of verbs to indicate repetition:

(63)	words	word + (-an)	Gloss
	(once)	(more than once)	
	ŋapʊʔ	ŋapʊw-an	'sweep'
	mɛsɛr	mɛsɛr-an	'buy'
	mɪlah	mɪlah-an	'split'

However, the addition of this suffix requires verbs to be plural or to have plural objects (64). If the meaning is intended for a singular object, then /-an/ must not be attached to the verb (65).

(64)	sim kuriŋ	ŋiksaʔ-an	dʒalmi
	I	hurt-repeat	people (plural)
			'I hurt people many times'
(65)	* sim kuriŋ	ŋiksaʔ-an	Katie
	I	hurt-repeat	name-(singular)
			'I hurt Katie many times'

Moreover, the attachment of the suffix /-an/ requires verbs to have complements; otherwise, the sentence will be ungrammatical. Consider the following example:

(66)	sim kuriŋ	mərəsih-an	imah-na	nini
	I	clean(active)-suffix	house-Possessive	grandma
				'I clean grandma's house'
(67)	sim kuriŋ	ŋinum-an	tʃai	
	I	drink(active)-suffix	water	
				'I drink water'

But not:

(68)	* sim kuriŋ	mərəsih-an
	* sim kuriŋ	ŋinum-an

Imperative verbs are formed by using the underlying root of the verb when no argument is required, or when the verb is followed by one argument only. For example:

(69)	pasak!		
	cook-imperative		
	'Cook'		
(70)	pasak	kaŋgo	bapa
	cook-imperative	for	father
	'Cook for father'		
(71)	pasak	lauk	

cook-imperative fish  
 'Cook fish'

However, when there are two arguments following the verb, a suffix /-kɪn/ must be attached to the verb, see (72):

(72) pasak-kɪn                      lauk      kango      bapa  
 cook (imperative)-suffix    fish      for          father

But not:

(73) \*pasak    lauk      kango      bapa

In (72), there are two arguments following the imperative verb pasak 'cook': the direct object lauk 'fish', and the prepositional phrase kango bapa 'for father'. Thus, the suffix /-kɪn/ is attached. The same sentence will be ungrammatical if /-kɪn/ is not attached to the root of the verb, as shown in (73).

The benefactive verbs in Sundanese are formed in two ways depending on the position of the direct and the indirect objects, (DO) and (IO), respectively. The first way is formed following this structure: S V (active) DO [kango IO]. This structure shows that when the direct object immediately follows the verb, the active form of the verb is used along with the word kango 'for' that should precede the indirect object, as exemplified in examples (74) and (75).

(74) andʒɪn    parantos      masak      lauk      kango      sim kuriŋ  
 you      past              cook-active    fish-do      for-preposition    me-io  
 'You cooked fish for me'

(75) sim kuriŋ    mɛsɛr      atʃuk      kango      andʒɪn  
 I              buy(active)    clothes    for-preposition    you  
 'I bought clothes for you'

The second way to form benefactive verbs is by the insertion of the circumfix [maŋ + V(active) + kɪn] when the benefactor appears between the verb and the direct object, following this structure: S maŋ-V(active)-kɪn IO DO:

(76) andʒɪn    parantos      maŋ-masak- kɪn                      sim kuriŋ      lauk  
 you      past              benefactive -cook-benefactive    me-io          fish-do  
 'You cooked me a fish'

Moreover, with this benefactive circumfix, it is ungrammatical to use *kango* 'for' to refer to the benefactor, as shown in (77) below:

(77) \*sim kuriŋ    maŋ-doroŋ-kɪn                      korsi      \*kango      Katie  
 I              benefactive-push-benefactive    chair      for          name  
 'I push the chair for Katie'

Data also show that this circumfix is only used with verbs:

(78) maŋ + V + kɪn  
 maŋ + masak + kɪn    'cook'  
 maŋ + doroŋ + kɪn    'push'

Moreover, when an intransitive verb is used where only IO appears in a prepositional phrase preceded by *kango*, the following simple structure is used: S V(active) [kango IO]. See examples below:

(79) Amy              ŋahlɪŋ      kango      kaluwargi-na

name sing(active) for family- possessive  
 'Amy sings for her family'

- (80) andʒin parantos masak kanjo sim kuriŋ  
 you past cook- active for me  
 'You cooked for me'

Finally, to express the causative form of verbs in Sundanese, the word *miwaran* 'make' is used before both the verb in its active form and the object of the sentence. Here are some examples:

- (81) sim kuriŋ miwaran Jolio meser atʃuk  
 I make(causative) name-do buy(active) clothes  
 'I make Jolio buy clothes'

- (82) sim kuriŋ miwaran andʒin miʃlah kadu  
 I make(causative) you- do split(active) durian  
 'I make you split durian'

## 5. The syntax of Sundanese

### 5.1. Noun phrases (NPs)

In NPs, nouns always precede all other determiners, adjectives, genitives, and possessive pronouns. Below are examples for each case.

- (83) Determiners:

a. buku ijə  
 book this  
 'This book'

b. atʃuk nu sanesna  
 clothes other  
 'The other clothes'

c. istri eta  
 woman that(nearby)  
 'That woman'

d. di bumi itu  
 house that (further way)  
 'That house'

- (84) Adjectives:

a. bal birim  
 ball red-adjective  
 'The red ball'

b. bal təbih  
 ball far-adjective  
 'The ball is far'

- (85) Possessive pronouns:

a. kaluwarga sim kuriŋ  
 family I-possessive  
 'My family'

b. kamidʒ andʒina



shirt his-possessive  
'His shirt'

(86) Genitives:

a. taŋkal-na  
tree-possessive  
'His/Her tree'

b. imah nini  
house grandmother  
'Grandmother's house'

Numbers and agentive modifiers, on the other hand, do not follow this rule; that is, they precede other nouns:

(87) Numbers:

a. dua dʒalmi  
two people  
'Two people'

b. səʔər dʒalmi  
many people  
'Many people'

(88) Agentive Modifiers:

a. tukaŋ gəlut  
Modifierfighter  
'Fighter'

b. tukaŋ tʃauʔ  
Modifier banana  
'Banana seller'

## 5.2. Prepositional phrases (PPs)

In the data of this study, there are seven Sundanese prepositions as listed in (89):

(89) Preposition Gloss

ka 'to'  
ku 'by'  
kaŋgo 'for'  
di 'in/at'  
ti 'from'  
sarəŋ 'with'  
tə disarəŋan 'without'

Similar to NPs, prepositions always precede nouns, noun phrases, and any modifiers of the noun phrases. Consider the following examples:

(90) sim kuriŋ didijəʔ di sakala  
I here at school  
'I am at school'

(91) buku ijəʔ kaŋgo Amy  
book this for name

‘This book is for Amy’

- (92) *apartømen sim kuriŋ di handap-ɪn apartømen andʒɪn*  
 apartment my-possessive at below-suffix apartment your  
 ‘My apartment is below yours’

Moreover, the preposition *di* ‘in/at’ precedes a set of adverbs to indicate location, see (93).

- (93) *di ləbət/ na ləbət* ‘inside’  
*di handap-ɪn* ‘under/below’  
*di sɔbudɪr-ɪn* ‘around’  
*di luhur-ɪn* ‘on (top of)/above’

The appearance of all these listed adverbs is always associated with the preposition *di* in the data, as the following sentences show:

- (94) *sim kuriŋ nudʒu aja di ləbət bəs*  
 I am exist inside bus  
 ‘I am on a bus’
- (95) *utʃiŋ aja di handapɪn kotak*  
 cat exist under box  
 ‘The cat is under the box’

The adverb *di luhur-ɪn* indicates the meaning of ‘something is on top of something else’. The underlying root *luhur* is attached to the suffix */-ɪn/*, which also appears in other adverbs like *handap-ɪn* and *sɔbudɪr-ɪn*. Note that when the root *luhur* appears as a verb or a verb-like, different suffixes are attached to it. See (96) below:

- (96) *Katie ŋa-luhur-an Abul kaŋgo syntax*  
 name active-root-active name for syntax  
 ‘Katie gets higher grade than Abul in Syntax’

In several sentences in the data, the word *aja* ‘exist/here’ shows up before prepositions, see (97) and (98). The presence of *aja* is important; otherwise, the meaning will not be conveyed.

- (97) *andʒɪna aja di pasar*  
 She exist at market  
 ‘She is at the market’
- (98) *sim kuriŋ aja di sakala*  
 I exist at school  
 ‘I am here at school’

The word *aja*, which denotes the meaning of existence, seems to appear in sentences with no main verbs around; however, this is not consistent as there are instances where neither main verbs nor *aja* appear in a sentence (99). Thus, the presence of this word remains unknown.

- (99) *lampu di luhur-ɪn andʒɪna*  
 light under you  
 ‘The light is above you’

Interestingly, the word *aja* must agree with the subject in terms of number. In other words, singular subjects require singular form of *aja*, and plural subjects require plural form of *aja*. Since the word *aja* starts with a vowel, the infix (*ar/arar*) is prefixed to the word, instead of inserted. Consider the following

example:

- (100) simut            aja        di    sabud+r-+n        andʒ+n  
 blanket        exist    in    around-suffix    you  
 ‘The blanket is around you’
- (101) s-ar-imut            arar-aja            di        sabud+r-+n        andʒ+n  
 blanket-(plural)    (plural)-exist    in-around-suffix        you  
 ‘The blankets are around you’

A final point to mention here is the use of *tə* to indicate negation in Sundanese. Two words in the data are found to function as negation markers ‘not’: *həntə* and *tə*. The former is used with verbs and adjectives, (102) and (103), while the latter only appears with the preposition *tə* *disarəŋan* ‘without’ (104).

- (102) andʒ+na        həntə                dʒaŋkuŋ  
 he                not-negation        tall-adjective  
 ‘He is not tall’
- (103) andʒ+na        həntə                sumpiŋ  
 he                not-negation        come-verb  
 ‘He doesn’t come’
- (104) andʒ+na        uwih    ka    bumi    tə    di-sarəŋ-an        ku    John  
 she                go        to    home    not be accompanied by    name  
 ‘She went home without him’

### 5.3. Declarative sentences

Sundanese is an SVO language. That is, subjects always precede verbs and objects while prepositional phrases or complements follow verbs. See examples below:

- (105) sim kuriŋ        masak  
 I                cook  
 ‘I cook’
- (106) (106) sim kuriŋ        masak        lauk  
 I                cook        fish-do  
 ‘I cook fish’
- (107) (107) sim kuriŋ        masak        lauk    kaŋgo    Katie  
 I                cook        fish-do    [for    name]<sub>IO</sub>  
 ‘I cook fish for Katie’
- (108) (108) andʒ+n        parantos        ŋaduruk        kai  
 she                past        burn        wood-do  
 ‘She burned the wood’

#### 5.3.1. Reflexives

There are six different reflexive pronouns in Sundanese. Reflexives are always followed by the word *nalira*, which means ‘self’.

- (109) Reflexives                Gloss  
 andʒ+n nalira                ‘yourself’  
 andʒ+n salarea                ‘yourselves’  
 sim kuriŋ nalira                ‘myself’

andʒina ʒalira	‘herself/himself’
ararandʒina ʒalira/	‘themselves’
maranehna ʒalira	
ʒalira	‘itself’ (things)
soraʒan	‘itself’ (non-humans)

In the data collected, some personal pronouns that function as the main subject of the sentence are repeated and followed by the word ʒalira to indicate reflexiveness in Sundanese. Here are some examples:

- (110) andʒina parantos ʒadʒar andʒina ʒalira piano  
 she past teach she self-reflexive piano  
 ‘She taught herself the piano’
- (111) andʒina rəsəp ʒarios pərkawis andʒina ʒalira  
 he love to talk about he self-reflexive  
 ‘He loves talking about himself’

Interestingly, two other words that indicate the reflexive meaning ‘self’ are found in the data: soraʒan and diri. The participant indicated that both words ʒalira and diri are reflexives of people (112) while the word soraʒan is used for non-humans (113).

- (112) sim kuriŋ ʒaʒəʒəri diri sim kuriŋ ʒalira  
 I hurt self-reflexive I self-reflexive  
 ‘I hurt myself’
- (113) utʒiŋ sim kuriŋ nudʒu gagaro soraʒan  
 cat my progressive scratch self-reflexive  
 ‘My cat is scratching itself’

The only difference found between the reflexives ʒalira and diri is that ʒalira follows the pronoun it describes while diri always precedes it. It even precedes the word ʒalira when both occur in one sentence, See (112).

Furthermore, when reflexives refer to objects ‘things’ like the word masin ‘machine’, for example, only the reflexive word ʒalira is used with no repeated pronouns. Consider the following example:

- (114) masin parim ʒalira pas parantos atosan  
 Machineswitch off self-reflexive past finish  
 ‘The machine switches itself off when it’s finished’.

Another interesting observation on reflexives is the use of intensive pronouns. When reflexives are used as intensive pronouns, reflexives must appear at the beginning of the sentence followed by a relative clause to indicate the meaning of ‘myself is the one who made this’, as exemplified below:

- (115) sim kuriŋ ʒalira anu parantos ʒadaməl kue ijə  
 I self that-relative past make cakethis  
 ‘I myself made this cake’.
- (116) maranehna ʒalira anu di-ʒəʒari  
 they self that- relative passive-hurt(intensive)  
 ‘They themselves were hurt’.
- (117) uraŋ salarea anu parantos ʒawaʒun imah ijə  
 we that- relative past build house this

‘We ourselves built this house’.

### 5.3.2. Passive construction

As indicated earlier in the morphology part, the passive form of the verb is formed by attaching the prefix (di-) to the underlying root, see (118):

- (118) andʒɪn di-dɔrɔŋ  
 you passive -push  
 ‘You are pushed’

The presence of the agent *ku sim kuriŋ* ‘by me’ following the verb *di-dɔrɔŋ* is optional. Also, it is optional to have complements.

- (119) andʒɪn di-dɔrɔŋ [ku sim kuriŋ] [ka sɔlɔkan]  
 you passive-push by-PREP me-agent to ditch  
 ‘You were pushed [by me] [to the ditch]’

There are different affixes that are attached to the verb in its passive form. The first of which is the suffix /-an/. When it is added to the passive verb, the presence of agents becomes obligatory (120). Absence of agents in such cases will render ungrammatical sentences (121).

- (120) andʒɪn di-dɔrɔŋ-an ku sim kuriŋ [ka sɔlɔkan]  
 you passive-push-suffix by me-agent to ditch  
 ‘You were pushed by me [to the ditch]’

But not:

- (121) \*andʒɪn di-dɔrɔŋ-an [ka sɔlɔkan]  
 you passive-push-suffix to ditch  
 ‘You were pushed [to the ditch]’

Another important suffix that can be added to the verb in the passive form is the suffix /-kɪn/. The addition of this suffix requires the sentence to have a locative complement. Unlike the suffix /-an/, the presence of the agent here is optional.

- (122) andʒɪn di-dɔrɔŋ-kɪn ka sɔlɔkan [ku sim kuriŋ]  
 you passive-push-suffix to ditch by me-agent  
 ‘You were pushed to the ditch [by me]’

But not:

- (123) \*andʒɪndi-dɔrɔŋ-kɪn [ku sim kuriŋ]  
 you passive-push-suffix by me-agent  
 ‘You were pushed [by me]’

Similarly, the passive benefactive structure is formed by adding the prefix /di-/ to the root of the verb, and the presence of the agent is optional here, as exemplified in (124).

- (124) lauk parantos di-pasak [ku sim kuriŋ] kaŋgo Katie  
 fish past passive -cook by me for name  
 ‘The fish was cooked (by me) for Katie’

However, when the circumfix (di + root + an) is used for passive form, the presence of the agent becomes obligatory, see (125).

- (125) lauk parantos di-pasak-an ku sim kuriŋ kaŋgo Katie  
 fish past passive-cook-suffix by me for name

- (126) 'The fish was cooked (by me) for Katie'  
 \*lauk parantos di-pasak-an kaᅇgo Katie  
 fish past passive-cook-suffix for name  
 'The fish was cooked for Katie'

Furthermore, to form passive with benefactive verbs, the circumfix (di + paᅇ + V(active) + kᅇn) is used, see (127). Note that the occurrence of the suffix /kᅇn/ with the passive form requires a complement:

- (127) andᅇᅇn di-paᅇ-masak-kᅇn lauk ku sim kuriᅇ  
 you passive-benefactive-cook-benefactive fish by me  
 'You were cooked a fish by me'

Another important issue to be covered here is the difference between passive verbs in terms of intentional vs. accidental events. To indicate the accidental form of the passive forms, the prefix /ka-/ is attached instead of /di-/. Consider the following accidental passive verbs:

- (128) maranehna ᅇalira anu ka-ᅇᅇᅇari  
 they self that-relative accidental-hurt  
 'They themselves were hurt' (Accidentally)
- (129) ramo sim kuriᅇ ka-potoᅇ  
 finger my- possessive accidental-cut  
 'My finger got cut'

Now consider the same examples with intentional passive verbs:

- (130) maranehna ᅇalira anu di-ᅇᅇᅇari  
 they self that-relative intentional-hurt  
 'They themselves were hurt' (Intentionally)
- (131) ramo sim kuriᅇ di-potoᅇ  
 finger my-possessive intentional-cut  
 'My finger was cut'

### 5.3.3. Temporal adverbs

Temporal adverbs are adverbs that immediately precede main verbs or sometimes adjectives to indicate the time reference for the event in the sentence. Each tense has its own temporal adverbs in Sundanese. To indicate the past tense in Sundanese, the adverb parantos is used, as exemplified below:

- (132) sim kuriᅇ parantos masak  
 I PAST cook(ACTIVE)  
 'I cooked'
- (133) sim kuriᅇ parantos bᅇbᅇrasah kaᅇgo kaluwarga sim kuriᅇ  
 I PAST clean for family I-POSSESSIVE  
 'I cleaned for my family'

However, when adjectives are involved, the temporal adverb kapuᅇkur is used, instead, to indicate the past time of the event:

- (134) maranehna kapuᅇkur bagᅇᅇa  
 they were-PAST happy-ADJECTIVE  
 'They were happy'
- (135) imah kapuᅇkur bodas  
 house was-PAST white-ADJECTIVE

‘The house was white’

The temporal adverb *nudzu*, on the other hand, is used to refer to the progressive form of verbs in Sundanese. Consider the two following examples:

- (136) *sim kuriŋ nudzu masak ajina*  
 I PROGRESSIVE cook(ACTIVE) now  
 ‘I am cooking now’
- (137) *sim kuriŋ nudzu bəbərəsih*  
 I PROGRESSIVE clean(ACTIVE)  
 ‘I am cleaning’

For the future tense, there are two adverbs used: *bade* and *bakal*. The only difference between the two is that the former is used to refer to immediate or near future actions (138) and (139), and the latter is used for later or far future actions (140) and (141).

- (138) *sim kuriŋ bade bəbərəsih*  
 I FUTURE clean  
 ‘I will clean now’
- (139) *sim kuriŋ bade masak*  
 I FUTURE cook  
 ‘I will cook now’
- (140) *sim kuriŋ bakal di-rɪwas-kɪn ku impɛnanandʒɪn*  
 I FUTURE PASSIVE-surprise-SUFFIX by dream your  
 ‘I will be surprised by your dream’
- (141) *sim kuriŋ bakal masak miŋgon pajun*  
 I FUTURE cook(ACTIVE) next week  
 ‘I will cook next week’

#### 5.3.4. Relative clauses

The word *anu* ‘that/who/which’ is used to indicate relative clauses in Sundanese. It immediately follows the subject/object it relativizes. There are different structures of relatives depending on whether subjects or objects are being relativized. Only three possible structures of relative clauses are found in the data collected:

- (142) Relative clause structures
- S V O<sub>i</sub> [S V t<sub>i</sub>]
  - S V O<sub>i</sub> [t<sub>i</sub> V O]
  - S<sub>i</sub> [t<sub>i</sub> V O] V O

In (142a), the object of the main clause is relativized to become the object of the relative clause. A topicalization takes place where the object of the relative clause is fronted to become the subject of the clause. In such case, two ways are possible to form the relative clause:

- (143) Object of the main clause is relativized, object in relative clause
- anu* + di(passive)-V(root) + *ku* + agent (pronoun)
  - anu* + agent(pronoun) + V(root)
- \*but not agent(noun) + V(root)

Consider the following examples that illustrate these two structures, respectively:

- (144) *sim kuriŋ hojoŋ niŋgal imah [anu di-waŋun ku andʒɪn]*

- (145) I want see house that-relative passive-build by you  
 sim kuriŋ hojoŋ niŋgal imah [anu ku andʒɪn waŋun]  
 I want see house that-relative by you build  
 ‘I want to see the house that you built’

But not:

- (146) \* sim kuriŋ hojoŋ niŋgal imah [anu ku bapa waŋun]  
 I want see house that- relative by father-noun build  
 ‘I want to see the house that the father built’

The second relative clause structure, as illustrated in (142b), shows that the object of the main clause is relativized to become the subject of the clause. In this case, the word *anu* immediately follows the object of the main clause, and it must be followed by the verb and a complement if the verb has a transitive nature. Consider the following examples:

- (147) sim kuriŋ hojoŋ mɛsɛr lauk [anu nodʒai na terɛh pisan]  
 I want to buy fish that- relative swim it very fast  
 ‘I want to buy the fish that swims very fast’
- (148) sɪm kurɪŋ tɛraŋ ɕuru sɛrat [anu nɛrat buku ijə]  
 I know secretary who write book this  
 ‘I know the secretary who wrote this book.’

The third and last structure of Sundanese relative clauses, as illustrated in (142c), occurs when the subject of the main clause is relativized to become the subject of the relative clause. In this case, the word *anu* comes right after the main subject followed by an obligatory verb and an object, if required:

- (149) istri [anu nɛrat buku ijə] biasa sumpɪŋ ka imah sɪm kurɪŋ  
 woman that write book this usually come to house my  
 ‘The woman who wrote this book usually comes to my house.’
- (150) lalaki [anu nuwaran taŋkal sɪm kurɪŋ] liŋgih di bumi itu  
 man that cut tree my live in house that  
 ‘The man who cut my tree lives in that house.’

A final point to make here is that both nouns and adjectives can be relativized in Sundanese. Noun phrases are relativized to indicate possessiveness (151) while adjectives are relativized to distinguish between intentional vs. unintentional actions (152).

- (151) imah-na Katie  
 house-possessive name  
 ‘Katie’s house’

Becomes:

imah-na anu Katie  
 house that-relative name  
 ‘Katie’s house’ literally (The house that is Katie’s)

- (152) sim kuriŋ nulak korsi agəŋ  
 I push chair big  
 ‘I pushed a big chair’

Becomes:



sim kuriŋ	nulak	korsi	anu	agəŋ
I	push	chair	that-relative	big
'I pushed the chair that is big'				

## 6. Discussion

Regarding the three research questions of the study, the results' section provided detailed answers to the first two questions about the phonotactic constraints of the Sundanese sound system, and the formation of words, phrases, and sentences. The current discussion section will address the third question by providing an interpretation of the current study's findings and their relevance to the findings of previous work on Sundanese.

Phonologically, all the consonants found in the data were distinct phonemes, except for the glottal stop that was found to be inserted in certain environments. In Sundanese, glottal stops were inserted in three environments: at the beginning of words that start with vowels, at the end of words that end with vowels, and in the middle of some words to separate two identical vowels. As for vowels, data showed that, unlike previous findings that viewed the two vowels as distinct, the two vowels [o] and [ʊ] were acoustically similar with the former being more rounded. Regarding consonant and vowel clusters, data showed that both were allowed in Sundanese. Anderson (1972) explained that consonant clusters were not common in Sundanese, but he did not deny the possibility of their existence. Data from this study, although limited, showed that many words in Sundanese had clusters. This finding contradicts the claim of Anderson regarding the uncommonness of consonant clusters in the language.

Some phonological processes such as assimilation and dissimilation were observed in the data when nasals or plural markers (-ar and -arar) were involved. Particularly, when words contained approximants or nasal consonants. Data also showed that nasal consonants affected the following and preceding vowels due to nasality spread. Similarly, Anderson (1972) discussed nasality spread in his study and showed that nasality spread to affect all vowels following the nasalized consonant when a word contained a nasal consonant. Sometimes, the spread extended to affect vowels of adjacent syllables. He supported this claim by citing examples from (Robins, 1957, p. 91):

- (153) a. maro [māro] 'to halve'  
b. maneh [māne~h] 'you'  
c. ŋiar [ŋi~ār] 'to seek'  
d. naian [nāi~ān] 'to wet'

Most Sundanese words consist of two syllables. However, words with one or more than two syllables were allowed in the language. The minimum syllable structure that could exist in Sundanese was V. Hanafi (1997) and Müller (2001), among others, agreed with this finding. Almost any consonant is allowed to occur as an onset except for the glide /j/. Moreover, the coda position of the first and second syllables in Sundanese are restricted to nasals, and a few other segments in the language. Due to the limited set of data, other studies were observed to check consistency. Van Syoc (1959) confirmed that restrictions on consonants applied in Sundanese where certain sound combinations were not allowed in the language.

Morphologically, Wessing (1976) explained that all Sundanese nouns, verbs, and adjectives could be pluralized. He showed that nouns were pluralized by reduplication while adjectives and verbs were pluralized by the infixation of (-ar/al). He added that only a few nouns like mass nouns could be pluralized using the same infixes of verbs and adjectives. However, data collected in this paper

contradicted this finding. Most Sundanese nouns, if not all, were pluralized by the infixations of (-ar/al) just like verbs and adjectives. Reduplication was also a way of making nouns plural in Sundanese. Furthermore, results showed that the agreement of nouns with verbs and adjectives in number as well as the order of affixes within words or sentences matter in the language. Some interesting observations that were noticed in the data included the attachments of certain affixes in Sundanese. Some affixes, like /-an/, required verbs to have objects or complements, otherwise they would be ungrammatical. Other affixes were attached to verbs only when more than one argument was involved, for example, the suffix /-kɪn/.

Moreover, some forms of verbs require certain words to precede or follow them in Sundanese sentences. For example, in the benefactive verbs, the word *kaŋgo* 'for' must follow the verb and precede the indirect object. In the causative form of verbs, the word *miwaraŋ* 'make' preceded both the verb and the object.

Syntactically, results showed that nouns preceded all other determiners, adjectives, genitives, and possessive pronouns. Numbers and agentive modifiers, on the other hand, did not follow this rule; that is, they preceded other nouns. Furthermore, Sundanese is an SVO language; that is, subjects always precede verbs and objects while prepositional phrases or complements follow verbs. These results were similar to what have been found in previous literature (e.g., Hardjadibrata, 1985; Müller, 2001; and Doran and Bangga, 2022). Interestingly, the word *aja* 'exist/here', which denotes the meaning of existence, was present before prepositions in some sentences of the data, and it seemed to appear in sentences with no overt main verbs. This finding was not previously discussed in the literature of Sundanese, at least to the author's knowledge. Since only a few sentences contained this word, rules that govern the presence of this word remained unknown and required further investigations.

Regarding reflexives, both nouns and adjectives could be relativized in Sundanese. Noun phrases were relativized to indicate possessiveness while adjectives were relativized to distinguish between intentional and unintentional actions. Reflexives were always followed by the word *jalira*, which means 'self'. Interestingly, two other words were used in the data to indicate the reflexive 'self': *soraŋan* and *diri*. The two words *jalira* and *diri* were used for people while *soraŋan* was used for non-humans. The only difference found between *jalira* and *diri* was that *jalira* followed the pronoun it described while *diri* always preceded it. It even preceded the word *jalira* when both occurred in one sentence.

Another interesting finding about Sundanese syntactic structures was observed in the use of Sundanese temporal adverbs. To indicate the past tense, the adverb *parantos* was used. However, when adjectives were involved, a different temporal adverb was used, *kapuŋkur*. For the future tense, two adverbs were used in the language: *bade* and *bakal*. The adverb *bade* was used for immediate or near future actions, while *bakal* was used for far future actions.

## **7. Conclusion**

This paper provides a morphological, syntactic, and phonological analysis of Sundanese, an indigenous language that is spoken in West Java, Indonesia. Sundanese people, although they form one of the largest ethnic groups in Indonesia, showed a tendency towards teaching their younger generations Indonesian and English instead, the two official languages in the country. This, if continued, would pose a threat to the stability of Sundanese and result in causing the language to become endangered. More than two hundred words of the Swadesh list were translated, transcribed, and used in sentences by a male informant who is a native speaker of the language. The current study aims to contribute to the literature

of the language by providing some linguistic characteristics of Sundanese and comparing results to what has been introduced in the literature. Data were observed, and patterns were grouped and categorized for analysis. Results showed some similarities and differences to the findings of other previous works in the field. Conclusions were drawn and comparisons were made where appropriate.

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## Conflict of interest

The author declares no conflict of interest.

## References

- Alwasilah AC (2008). *Filsafat Bahasa dan Pendidikan*. Bandung: Sekolah Pascasarjana Universitas Pendidikan Indonesia dan PT Remaja Rosdakarya.
- Anderson SR (1972). On nasalization in Sundanese. *Linguistic Inquiry* 3(3); 253-268.
- Bangga LA, Doran YJ (2021). A systemic functional sketch of material clauses in Sundanese. *Word* 67(2): 208-233. doi: 10.1080/00437956.2021.1909840
- Bangga LA, Doran YJ (2022) Sundanese nominal groups: Meaning in text. *Word* 68(2): 145-199. doi: 10.1080/00437956.2021.2024353
- Eberhard, David M, Simons GF, Fennig CD (2019). *Ethnologue: Languages of the World*, 22nd ed.
- Hanafi N (1997). *A Typological Study of Sundanese* [PhD thesis]. La Trobe University.
- Hardjadibrata RR (1985) *Sundanese: A Syntactical Analysis*. Australian National University.
- Indrayani LM (2011). Language vitality: A case on Sundanese language as a surviving indigenous language. *Proceedings of Language Maintenance and Shift*.
- Müller-Gotama F (2001). *Sundanese*. Lincom: Munechen.
- Robins RH (1953). The phonology of the nasalized verbal forms in Sundanese. *Bulletin of the School of Oriental and African Studies* 15(1): 138-145. doi: 10.1017/S0041977X00087309
- Robins RH (1957). Vowel nasality in Sundanese: A phonological and grammatical study. In: Firth JR (editor). *Studies in Linguistic Analysis*. Oxford: Blackwell. pp. 87-103.
- Robins RH (1965). Some typological observations on Sundanese morphology. *Lingua* 15: 435-450.
- Robins RH (1968). Basic sentence structures in Sundanese. *Lingua* 21: 351-358.
- Van Syoc WB (1959). *The Phonology and Morphology of the Sundanese Language*. University of Michigan.
- Wessing R (1976). Inchoative Nouns in Sundanese. *Anthropological Linguistics* 18(8): 341-348.
- Wurm SA (2002). Strategies for language maintenance and revival. In: Bradley D, Bradley M (editors). *Language Endangerment and Language Maintenance*. London: Routledge Curzon. pp. 11-23.
- Zein S (2019). English, multilingualism and globalisation in Indonesia: A love triangle: Why Indonesia should move towards multilingual education. *English Today* 35(1): 48-53. doi: 10.1017/S026607841800010X

## Appendix

Table A1. Swadesh list chart.

	English word	Singular	Plural	Plural (many)	Verb (passive)
1	I	simkuriŋ			
2	you (singular)	andʒən			
3	he	manɛhnaʔ			
4	we	uraŋsararɛaʔ			
5	You (plural)	arandʒənaʔ			
6	they	maranɛhnaʔ			
7	this	ijəʔ			
8	that	ituʔ			
9	here	didijəʔ			
10	there	didituʔ			
11	who	sahaʔ			
12	what	kulan			
13	where	kamanaʔ	kamaranaʔ	kamararanaʔ	
14	when	irahaʔ			
15	how	kumahaʔ			
16	not	hɛntəʔ	harɛntəʔ	hararɛntəʔ	
17	all	sadajanaʔ			
18	many	səʔər	saləʔər	salaləʔər	
19	some	sababarahaʔ			
20	few	sakədik	sakarədik	sakararədik	
21	other	nusanɛsnaʔ			
22	one	hidʒiʔ			
23	two	duwəʔ			
24	three	tiluʔ			
25	four	opat			
26	five	limaʔ			
27	big	agəŋ			
28	long	pandʒaŋ			
29	wide	ləgaʔ			
30	thick	kandəl			
31	heavy	abət (polite)			
32	small	alɪt (polite) lətik (impolite)			
33	short	pondok			
34	narrow	səmpit			
35	thin	ʔipis			

Table A1. (Continued).

	English word	Singular	Plural	Plural (many)	Verb (passive)
36	woman	istri? (polite) awewe? (impolite)			
37	man (adult male)	paməgət (polite) lalaki? (impolite)			
38	Man (human being)	manusa? (polite) dʒɪlɪma?(impolite)			
39	child	muraŋkali?			
40	wife	pamadʒɪkan			
41	husband	salaki?			
42	mother	punbijaŋ (polite) ma? (impolite)	ʔmʔmmaʔan		
43	father	bapa?			
44	animal	sato?			
45	fish	lauk			
46	bird	manuk			
47	dog	gəgəg			
48	louse	kutunbila?			
49	snake	ʔoraɪ			
50	worm	tʃaʃiŋ			
51	tree	taŋkal	tataŋkalan		
52	forest	ləwəŋ			
53	stick	toŋkat	totoŋkatan		
54	fruit	buah	bubuwan		
55	seed	binih	bibinihan		
56	leaf	daʊn	dadawunan		
57	root	akar	aakaran		
58	bark	kulitaŋkal	səʔər kulitaŋkal		
59	flower	kəmbaŋ	kəkəmbaŋan		
60	grass	dʒukut	dʒudʒukutan		
61	rope	tali?	tataliʌn		
62	skin	kulit	kukulɪtan		
63	meat	dagɪŋ	dadagɪŋan		
64	blood	gətih	gɪgɪttihan		
65	bone	tulaŋ	tutulaŋan		
66	fat (n.)	gadʒɪh	gagadʒɪhan		
67	egg	ʔəndəg	ʔəʔəndəgan		
68	horn	tanduk	tatandəkan		
69	tail	buntut	bubuntutan		
70	feather	bulu	bubuluwan		

Table A1. (Continued).

	English word	Singular	Plural	Plural (many)	Verb (passive)
71	hair	buʔuk	bubuʔukan		
72	head	mastakaʔ (polite) hulu (animal)	mamastakaʔan huhuluwan		
73	ear	tʃəpil (polite) tʃəliʔ (impolite)	tʃtʃəbilan tʃətʃəlijan		
74	eye	sotʃaʔ	susutʃaʔan		
75	nose	pagaŋbʊŋ	babagaŋbʊnan		
76	mouth	lambɪʔ	lalambɪjan		
77	tooth	waʊs	wawaʊsan		
78	tongue	lɛtah	lɛlɛtahan		
79	fingernail	kukuramuʔ	kukukukuramuʔan		
80	foot	sampejan	sasanbejana		
81	leg	sukuʔ	susukuwan		
82	knee	tuʔur	tutuʔuran		
83	hand	panaŋan	papananaŋan		
84	wing	sajaŋ	sasajaŋan		
85	belly	patuwaŋan	bəbətwaŋan		
86	guts	bətwaŋan	bəbətwaŋan		
87	neck	bəhɛŋ təŋɪk	bəbəhɛŋa tətəŋɪkan		
88	back	bunduk	bubundukan		
89	breast	bajun dada (animal)	babajunan dadadadaʔan		
90	heart	hateʔ	hahatejan		
91	liver	lipər	lɪlɪpɪran		
92	drink	ʔɛʔɛt	ʔararɛʔɪd		
93	eat	mmam	ararəmaman		
94	bite	ŋuŋah	ŋararuŋahan		dikuŋah
95	suck	ŋnamut	ŋaŋaramutan		dikamut
96	spit	ŋiduh	ŋjaraniduhan		ditʃiduh (s) ditʃarariduh(pl)
97	vomit	əŋkɛk	arəŋkɛk	ararəŋkɛk	diʔəŋkɛk (s) diaraəŋkɛk (pl)
98	blow	nijup	narijup	nararijup	
99	breathe	ŋɪŋhap	ŋarɪŋhap	ŋararɪŋhap	disɪŋhap (s) disararɪnhap (pl)
100	laugh	səriʔ	salɪriʔ	salalɪriʔ	disɪriʔ
101	see	nələʔ	narələʔ		ditələʔ
102	hear	deŋɛʔ	dararɛŋɛʔ		didɛŋɛʔ/
103	know	təraŋ	tələraŋ	tələlaraŋ	ditəraŋ

Table A1. (Continued).

	English word	Singular	Plural	Plural (many)	Verb (passive)
104	think	mikir	malikir	malalikir	dipikir
105	smell	ηambiʔ	ηarampiʔ	ηararampiʔ	diʔampiʔ
106	fear	sij+n	sarej+n	sararej+n	disεj+n
107	sleep	εbog	arεbug	ararebug	diebug
108	live	hirup	halirup	halalirup	dihirup
109	die	maot	marawut	mararawut	dipawut
110	kill	maεhan	marաεhan	mararaεhan	dipaεhan
111	fight	gələt	garələt	gararələt	digələt
112	hunt	muruʔ	maluruʔ	malaluruʔ	diburuʔ
113	hit	nundʒuk	narundʒuk	nararundʒuk	ditundʒuk
114	cut	motonj	marutonj	mararutonj	diputonj
115	split	p+lah	par+lah	parar+lah	dip+lah
116	stab	nodʒus	narudʒus	nararudʒus	ditudʒus
117	scratch	garuʔ	galaruʔ	galalaruʔ	digaruʔ
118	dig	ηaliʔ	ηaraliʔ	ηararaliʔ	dikaliʔ
119	swim	ηōdʒaɪ	ηarōdʒaɪ	ηararōdʒaɪ	diʔōdʒaɪ
120	fly (v.)	ηapuj	ηarapuj	ηararapuj	diʔapuj
121	walk	lēmpanj	lalēmpanj	lalalēmpanj	dilēmpanj
122	come	sumpij	sarumpij	sararumpij	disumpij
123	lie	wadul	waradul	wararadul	diwadul
124	sit	tʃalik	tʃaralik	tʃararalik	ditʃalik
125	stand	tatih	taratih	tararatih	ditatih
126	turn	mεηkəl	marεηkəl	mararεηkəl	dipeηkəl
127	fall	gobis	garōbis	gararōbis	digōbis
128	give	masihan	marasihan	mararasihan	dipasihan
129	hold	ηəpəj	ηarəpəj	ηararəpəj	ditʃəpəj
130	squeeze	mərəs	malərəs	malalərəs	dipərəs
131	rub	ηōsok	ηarōsok	ηararōsok	dikōsok
132	wash	ηombah	ηarombah	ηararombah	dikombah
133	wipe	ηəlap	ηarəlap	ηararəlap	diʔəlap
134	pull	narik	nalarik	nalalarik	ditarik
135	push	dəwəj	daləwəj	dalaləwəj	didəwəj
136	throw	mitʃɪn	maritʃɪn	mararitʃɪn	dipitʃɪn
137	tie	naliʔ	naraliʔ	nararaliʔ	ditaliʔ
138	sew	dʒaʔɪt	dʒaraʔɪt	dʒararaʔɪt	didʒaʔɪt
139	count	ηitʊj	ηaritʊj	ηararitʊj	diʔitʊj
140	say	ηarijos	ηalarijos	ηalalarijos	ditʃarijos
141	sing	hal+an	haral+an	hararal+an	dihal+an

Table A1. (Continued).

	English word	Singular	Plural	Plural (many)	Verb (passive)
142	play	ʔaməŋ	ʔaraməŋ	ʔaraməŋ	diʔaməŋ
143	float	ŋambəŋ	ŋarambəŋ	ŋarambəŋ	diʔambəŋ
144	flow	ŋalir	ŋalalir	ŋalalalir	diʔalir
145	freeze	bəku	barəku	bararəku	dibəku
146	swell	rahit	larahit	lalarahit	dirahit
147	sun	panənpəwəʔ	papanənpəwəjan		dipapanənpəwəjan
148	moon	bulan	bubulanan		
149	star	bəntəŋ	bəpəntəŋ		
150	water	tʃaiʔ	tʃtʃaijan		ditʃaiʔ
151	rain	hudʒan	huhudʒanan		
152	river	susəŋəʔ	susəŋəʔjan		
153	lake	sitəʔ	sisitəʔan		
154	sea	lawət	lalawətan	lalalawətananana	
155	salt	ujah	uʔuʔjahan	uʔuʔjahanana	
156	stone	batuʔ	babatəwan	babatəwanana	
157	sand	pasir	papasiran	papasiranana	
158	dust	ləbuʔ	lələbuwan	lələbuwanana	
159	earth	bomiʔ	bobomijan	bobomijanana	
160	cloud	hasip	hahasippan		
161	fog	haliməŋ	hahaliməŋan		
162	sky	lanjit	lalanjit	lalalanjit	
163	wind	ʔanjiʔn			
164	snow	saldʒəʔ	sasaldʒəʔan		
165	ice	ʔəs	səʔər ʔəs		
166	smoke	hasip	hahasippan		dihhasip
167	fire	sɪnɪʔ	sɪsɪnəʔan		disɪnɪʔ
168	ashes	ləbuʔ	lələbuwan		diləbuʔ
169	burn	dərək	dalərək	dalalərək	didərək
170	road	dʒalan	dʒadʒalanan		didʒalan
171	mountain	gunəŋ	gugunəŋan		
172	red	bɪrɪm	balɪrɪm	balalɪrɪm	dibɪrɪm
173	green	hədʒəʔ	harədʒəʔ	hararədʒəʔ	dihədʒəʔ
174	yellow	koneŋ	karoneŋ	kararoneŋ	dikoneŋ
175	white	bodas	barodas	bararodas	dibodas
176	black	hidɪŋ	haridɪŋ	hararidɪŋ	dihidɪŋ
177	night	wəŋi	warəŋi	wararəŋi	
178	day	dɛntən	darɪntən	dararɪntən	
179	year	taʊn or taʷəŋ	taraʊn	tararaʊn	



Table A1. (Continued).

	English word	Singular	Plural	Plural (many)	Verb (passive)
180	warm	hanit	haranit	hararanit	dihanit
181	cold	tiris	taliris	talaliris	ditiris
182	full	kəmɪrkaʔan	kaləmɪrkaʔan	kalaləmɪrkaʔan	
183	new	ʔaɲər	ʔalaɲər	ʔalalaɲər	
184	old (things) old(people)	kələt səpuh	karələt sarəpuh	kararələt sararəpuh	
185	good	saʔeʔ	saraʔeʔ	sararaʔeʔ	disaʔeʔ
186	bad	ʔawon	ʔarawon	ʔararawon	diʔawon
187	rotten	buruk	baluruk	balaluruk	
188	dirty	kətər	kalətər	kalalətər	dikətər
189	straight	ləmpəŋ	laləmpəŋ	lalələmpəŋ	ŋələmpəŋkɪn (active) diləmpəŋkɪn (passive)
190	round	bulid	barulid	bararulid	ŋabulidan (active) dibulidan (passive)
191	sharp	sikit	sarikit	sararikit	disikit
192	dull	mɪntʊl	marɪntʊl	mararɪntʊl	mɪntʊlan (active) dipɪntʊlan
193	smooth	lɪmis	lalɪmis	lalalɪmis	ŋalɪmisan (active) dilɪmisan (passive)
194	wet	basih	barasih	bararasih	ŋabasihān (active) dibasihān (passive)
195	dry	gariŋ	galariŋ	galalariŋ	ŋagariŋān (active) digariŋān
196	correct	laris	lalaris	lalalaris	ŋalarisan (active) dilarisan (passive)
197	near	tʃakət	tʃarakət	tʃararakət	ŋakətɪn
198	far	tabih	tarabih	tararabih	nəbihkɪn/nəbiān (active)
199	right	katuhuʔ	karatuhuʔ	kararatuhuʔ	ŋatuhukɪn/ŋatuhuan (active)
200	left	kɛntʃaʔ	karɛntʃaʔ	kararɛntʃaʔ	ŋɛntʃaʔkɪn/ŋɛntʃaʔ ʔan (active)
201	at	diʔ			
202	in	diləbət	dilaləbət	dilalaləbət	
203	with	sarəŋ	sararəŋ		
204	and	dʒɪŋ			
205	if	ʔupamiʔ			
206	because	komargiʔ			
207	name	namiʔ(polite) ɲaraŋ (regular)	narami	nararami	dinami