A Grammar of Ayeri

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Documenting a Fictional Language

by Carsten Becker

Benung. The Ayeri Language Resource

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Ayeri is a fictional language spoken by fictional people in a fictional setting, and as such is not related to any naturally existing languages. It is thus not to be confused with *Azeri*, a Turkic language spoken in Azerbaijan and its surrounding countries. Ayeri's vocabulary is entirely a priori, this means, no real-world languages have been used specifically as sources of vocabulary. Due to the language's sound and spelling aesthetic being inspired by Austronesian languages, it is not surprising if overlaps with existing words in those languages happen accidentally.

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Glossing Abbreviations

I	First person	M	Masculine
2	Second person	N	Neuter
3	Third person	NEG	Negative
A	Agent	NMLZ	Nominalizer
ACC	Accusative	NN	Noun
AGTZ	Agentizer	NOM	Nominative
AN	Animate	NPST	Near past
AT	Agent topic	P	Patient
CAUS	Causative	PL	Plural
DAT	Dative	PST	Past
F	Feminine	PT	Patient topic
FUT	Future	PTCP	Participle
GEN	Genitive	REL	Relative
IMP	Imperative	RPST	Remote past
INAN	Inanimate	SBJ	Subject
INDF	Indefinite	SG	Singular
INF	Infinitive	TOP	Topic
INS	Instrumental	VB	Verb
LOC	Locative		

Preface

This is my latest attempt to write a grammar of Ayeri, a fictional language which I have been developing since December 2003. Getting to work on grammar writing again was triggered by a growing dissatisfaction with not having a central place of documentation, when the first thing people look for on my website is often the grammar, incomplete as well as partially inaccurate and outdated as it may be. In addition to that, there was a seminar on fictional languages at the University of Tübingen, Germany, in the summer semester of 2016 (Buch 2016). Ayeri was one of the languages that was chosen for students to explore and evaluate.

The student group who worked on Ayeri came to the conclusion that its documentation is severely lacking in the description of basic elements and assumptions, since whole chapters of the grammar had been missing to date (Boga et al. 2016: 12). This is to say that previous attempts of writing a full-fledged grammar of Ayeri have been incomplete due to creeping neglect.

Although the *Ayeri Grammar* has so far been lying dormant for five years, I have written a whole number of blog articles detailing various grammatical issues (Becker 2016: Blog). These articles have been taken into consideration here. This grammar writing attempt is thus not only a transferral to a different typesetting system, but constitutes an extension to previous formal documentation as well.

I hope that by transferring my previous grammar writing from LibreOffice to LATEX, combined with using GitHub as a version control system, maintaining and editing will become faster, more transparent, and more elegant, since LATEX operates on plain text files, and version control helps in keeping track of changes over time.

Carsten Becker Marburg, July 4, 2016

1 Autānas-ikan 'thanks a lot' to Bella Boga, Madita Breuninger, Thora Daneyko, and Martina Stama-Kirr for their hard work on making sense of my published materials in spite of information being scattered all over the place, as well as their providing me with the presentation concluding their group work.

O Introduction

In December 2003, the idea for a new fictional language was born, an idea that turned out to stick with me for over 10 years now.¹ At that time, my seventeen years old self was still fairly new to this whole making-up languages business, read things about linguistics here and there, and was not shy to ask questions about terminology (and, looking at old mails, a little impertinently teenager-like so), for example on *Conlang-L* and the *Zompist Bulletin Board*. One thing seemed to catch my interest especially: syntactic alignments other than the Nom/Acc of the few languages I was familiar with, that is, German, English, and French. Apparently this curiosity was big enough for me to grow bored with my second fictional language, Daléian (declared 'quite complete' after maybe half a year of work or so), and to start something new from scratch in order to put newly acquired knowledge to test.

I had read about 'trigger languages' on *Conlang-L* and wanted to try my hands on making my own. I cannot remember how long it took me to come up with a first draft of an Ayeri grammar, however, I do remember having been told that a good language cannot be made in a summer. Of course, I still did not really know what I was doing then, even though I thought I had understood things and authoritatively declared "this is how it works" in my first grammar draft when things sometimes really do not work that way. But at least an interest had been whetted.

In order to illustrate the various stages from the beginnings to current Ayeri, I went through some old backups contemporary with the very early days. Here is a sentence from the oldest existing document related to it, titled "Draft of & Ideas for my 3rd Conlang"—the file's last-changed date is December 14, 2003, though I remember having started work on Ayeri in early December. I added glossing for convenience and according to what I could reconstruct from the notes. This uses vocabulary and grammatical markers just made up on the spot and for illustrative purposes; little of it actually managed to make it into actual work on Ayeri:

Most of the text here is taken from the blog article, "Happy 10th anniversary, Ayeri!" (Becker 2013).

(I) Ayevhoi agiaemaesim coyaielieðamavir vhaieloyaŋaiye. Ay-evhoi agia-ema-esim coyai-el-i-eðam-avir vhai-el-o-yaŋa-iye 3SG.AN-SBJ read-VB-SBJ.AN book-NN-AN-INDF-P bed-NN-INAN-On-LOC

'He reads a book on the bed.'

According to the grammar draft of September 5, 2004, this would have already changed to:

(2) Ang layaiyain mecoyalei ling *pinamea.

Ang laya-iy-a-in me-coya-lei ling *pinam-ea

A.SBJ read-3SG.AN1-a1-SBJ INDF.INAN-book-P.INAN top.of bed-Loc

'He reads a book on the bed.'

A word for 'bed'—nze pinam—was only (re-)introduced on October 24, 2008. In the current state of Ayeri, I would translate the sentence as follows:

(3) Ang layaya koyaley ling pinamya.

Ang laya=ya.Ø koya-ley ling pinam-ya

AT read=3SG.M.TOP book-P.INAN top.of bed-loc

'He reads a book on a/the bed.'

As you can see, quite a bit of morphology got lost already early on, especially the overt part-of-speech marking (!) and animacy marking on nouns. Also, prepositions were just incorporated into a noun complex as suffixes apparently. Gender was originally only divided into animate and inanimate, but I changed that at some point because only being familiar really with European languages, it felt awkward to me not to be able to explicitly distinguish 'he', 'she', and 'it'.

A feature that also got lost is the assignment of thematic vowels in personal pronouns to 3rd-person referents: originally, every 3rd-person referent newly introduced into discourse would be assigned one of /a e i o u/ to disambiguate, and there was even a morpheme to mark that the speaker wanted to dissolve the association. Constituent order was theoretically variable at first, but I preferred svo/AVP due to familiarity with that. Later on, however, I settled on vso/VAP. Also, I had no idea about what was called "trigger morphology" on *Conlang-L* for the longest time—essentially, this referred to the Austronesian, or Philippine, alignment. I am not claiming that I know all about it now, just that due to reading up on the topic, I have a slightly more informed understanding now. Orthography changed as well over the years, so $\langle c \rangle$ in the early examples encodes the /k/ sound, not /tʃ/ as it does today; diphthongs are spelled as $\langle Vi \rangle$ instead of modern $\langle Vy \rangle$.

What was definitely beneficial for the development of Ayeri was the ever increasing amount of linguistics materials available online and my entering university (to study literature) in 2009, where I learned how to do research and also had a lot of interesting books available at the library.

One of the things people regularly compliment me on is Ayeri's script—note, however, that Tahano Hikamu was not the first one I came up with for Ayeri. Apparently, I had already been fascinated with the look of Javanese/Balinese writing early on; Figure 0.1 shows a draft dated February 9, 2004. However, since the letter shapes in this draft looked so confusingly alike that I could never memorize them. About a year later, I came up with the draft in Figure 0.2. What is titled "Another Experimental Script" here is what would later turn into Tahano Hikamu, Ayeri's 'native' script. According to the notes in my fictional language ring binder, the script looked much the same as today about a year from then, but things have only been mostly stable since about 2008.

Figure 0.1: First design for an Ayeri script (February 9, 2004)

ba	161	ma 1767	va 11	J.	1	deu
da	Ω	na Mp			ł	;
ga	B	nga 1917		_	e.g.	;; ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
A	(য়)	la 117s1	ya (1.7		pa": 16
a- e-	•		7	ver A ver E ver I ver O ver U	ં ર દુ ક દ	nute -a of a cousonet:
					·	

Figure 0.2: First draft for Tahano Hikamu (March 23, 2005)

Another important date in the history of Ayeri is when I decided to set up an improved website for Ayeri that would include a blog. The idea was that this way, I could more freely write on whatever detail I currently worked on in Ayeri, outside of the constraints of the grammar. Thus, *Benung. The Ayeri Language Resource* launched on March 1, 2011. Being able to write short articles, however, probably also led to neglecting work on the actual formal reference grammar, which had been lying dormant from January 2011 on. This was always on the premise that I would eventually include the information form blog articles in the grammar. However, juggling such a big document had always felt daunting, so I let laziness take the better part of me eventually.² This renewed attempt at documentation has been started with the intention to right those wrongs.

Let me add to my defense, however, that I also worked on my B.A. thesis in 2013 and my M.A. thesis in 2016, which required several months of preparation each and thus left me largely unable to work much on Ayeri.

1 Phonology

This chapter will present charts depicting the phoneme inventory of Ayeri and describe the various commonly encountered allophones of both consonants and vowels. Following this, a detailed statistical analysis of the words found in a number of translated texts from 2008 to 2016 as well as dictionary entries up to July 2016 will produce insights into Ayeri's phonotactics. Some notes on stress patterns and intonation will close the chapter.

1.1 Phoneme Inventory

1.1.1 Consonants

At 17 consonants, Ayeri has a "moderately small" inventory, according to Maddieson (2013a). Figure 1.1 shows the full chart of consonant phonemes.

Regarding allophony, /tj kj/ and /dj gj/ are usually realized as [tʃ] and [dʒ], respecitively, except if a homorganic nasal /n/ or /ŋ/ is preceding: for instance, ankyu /'aŋkju/ 'really' is realized as ['aŋkju], not as *['aŋtʃu] or *['antʃu]. It is important to note, however, that besides this synchronic palatalization process leading to [tʃ] and [dʒ] as allophones, there is also a diachronic one in parallel here—or the diachronic process is still ongoing. For instance, there is no way to predict whether z_1 cuna 'original, initial', z_2 panca 'finally, eventually', and z_3 vac- 'like', or z_1 jaran 'pilgrimage', z_2 aja- 'play', and z_3 nuj- 'pour' have /tj/ or /kj/, /dj/ or /gj/, respectively, unless we consider the clues given by the conservative native spellings of the respective words.¹ We can rather assume two sound changes, (1) tj, kj z_1 tf, and (2) dj, gj z_2 dz, leading to the phonemes /tʃ/ and /dz/ in the present-day language.

Actual scribes would typically err in cases where the merger is complete, so this strategy would, in fact, be of limited use in the real world.

Figure 1.1: Consonant inventory (divergent orthography in pointed brackets)

	Bilabials	Labiodentals	Alveolars	Palatals	Velars	Glottals
Plosives	þ þ		t d		g y	
Affricates			$tJ\langle c\rangle$ $d3\langle j\rangle$			
Nasals	m		n		$\mathfrak{y} \ \langle \mathrm{ng} \rangle$	
Fricatives		V	S			h
Taps/Flaps			r			
Approximants			1	j ⟨y⟩		

The plural marker : 1 -ye is commonly contracted to [dʒ] when a case suffix beginning with a vowel follows:2

- (4) a. ₀₂₂₂₂ʒṛṛ nyān**ye**ang → nyān**j**ang [ˈnja:ndʒaŋ] 'persons' (person-PL-A);
 - b. ¿śśup netuyeas -> netujas [neˈtudʒas] 'brothers' (brother-PL-P).

The plural marker may also contract before the locative marker := -ya and the dative marker := -yam, basically for dissimilation:³

- (5) a. ξ_{ruu} nivayeya \rightarrow nivajya [ni'vadzja] 'at the eyes' (eye-PL-LOC);

Dissimilation of the sequence "uu -yaya is attested in my translation of Kafka's short story "Eine kaiserliche Botschaft," where the relative pronoun Fuu siyaya appears transcribed as sijya:

As far as morphophonology is concerned, the relative pronoun complex *sijya* 'in/at/on which.Loc' is interesting in so far as it is a contraction of **siyaya* 'REL-LOC-LOC' that I introduced here [...] Since this feature does not occur in previous texts, let's assume it's an acceptable variant. (Becker 2012: 12)

The contraction happens "only if both parts are grammatical suffixes" (12), however, so the environments this contraction may appear in are effectively limited to relative pronouns combining locative and locative, or locative and dative marking.

Lastly, /h/ may be realized as [ç] before front vowels, and as [x] before back vowels:

- (6) a. mzū tahi [ˈtaçi] 'favorable';
 - b. 👸 babo ['baxo] 'loud'.

While vowels become long when two identical vowels come into succession, consonants do not geminate but are treated like a single consonant:

- (7) a. worż tavoang [ta'va:ŋ] 'you get' (get=2sg.A),
 - b. เป็นหมา disyyang [di'sjan] 'I fasten' (fasten=ISG.A).

With diphthongs, the sequence /VI.j/ is treated as though it were /Vj.j/, so the double /j/ simplifies to just a single /j/; however, the vowel remains lax in spite of being phonetically in an open position now:

- (8) ลัฐกับ tipuyya [ti'pu.ja] 'on the grass' (grass-loc).
- The customary romanization uses (c) and (j) for allophonic cases of [tf] and [dʒ] as well.
- 3 $\frac{1}{2}$ -ea also occurs as an variant morpheme, so that $\frac{1}{2}$ -ye + $\frac{1}{2}$ -ea $\rightarrow \frac{1}{2}$ $\frac{1}{2}$ -yēa.

1.1.2 Vowels

Figure 1.2: Vowel inventory (divergent orthography in pointed brackets)

	Front	Center	Back
High Mid	i, i: ⟨ī⟩ e, e: ⟨ē⟩	(ə ⟨ə, e⟩)	u, u: ⟨ū⟩ o, o: ⟨ō⟩
Back	, , ,	a, a: $\langle \bar{a} \rangle$, , ,

Ayeri's vowel system distinguishes five qualities, as shown in Figure 1.2; Maddieson (2013c) classifies this as "average." Length, however, is also a factor, and there are five diphthongs as well, as we will see below. The consonant–vowel ratio is 4.25, which Maddieson (2013b) also classifies as "average," although at the upper end of the tier.

The lax vowels $[I \in O \cup I]$ occur as allophones of their tense counterparts /i e o u/in closed syllables, for example:

- (9) a. ein ming [mɪŋ] 'can, be able',
 - b. 622 enya ['ɛnja] 'everyone',
 - c. ลัง agon ['agon] 'outer, foreign', and
 - d. nɨ̞lɨp pakur [ˈpakur] 'ill, sick'.

Ayeri also possesses a number of diphthongs, these are: /aɪ eɪ ɔɪ uɪ au/, spelled ⟨ay⟩, ⟨ey⟩, ⟨oy⟩, ⟨uy⟩, and ⟨au⟩. Furthermore, there are long equivalents of the short vowels: /i: e: a: o: u:/. Long vowels are lexicalized in a few words, for example:

- (10) a. ožn nīsa 'wanted', nặn pasīsa 'interesting';
 - b. ¡ˈˈarēn 'anyway, however', ˈˈsə lēra 'whore';
 - c. ng lā 'tongue', yṇṇ yāng 'he' (he.A);
 - d. $0 \approx n\bar{o}n$ 'will, intention'; and
 - e. ağż babūan 'barbarian'.4

Otherwise, long vowels result from two same vowels next to each other, for instance:

```
(II) ลัย: aja- 'play' + :ลัz่ -an 'NMLZ' → ลังษูรู่ ajān 'game, play'.
```

Morphophonologically, long vowels also occur in double-marked relative pronouns where the agreement marker for the relative clause's head has been omitted, for instance, $\tilde{\kappa}_{02}$ $sin\tilde{a}$ 'of which, about which', as in the following example:

```
Le
(12)
              turayāng
                                        sinā
                            taman
                                                          ang ningay
     Le
              tura-yāng
                            taman-Ø
                                       si-Ø-na
                                                         ang ning=ay.Ø
     PT.INAN send=3SG.M.A letter-top rel-pt.inan-gen at
                                                               tell=ISG.TOP
        tamala
                  vās.
        tamala
                 vās
        yesterday 2sg.P
```

'The letter which I told you about yesterday, he sent it.'

This is to disambiguate it from the plain genitive-marked relative pronoun §2 sina 'which.gen':5

(13) tamanang ledanena nā sina koronvāng taman-ang ledan-ena nā si-na koron-vāng letter-A friend-GEN ISG.GEN REL-GEN know=2SG.A

'the letter of my friend which you know'

As pointed out in (10c), the word $n_{\rm K}$ $l\bar{a}$ 'tongue' ends in a long vowel, so the question is what happens when a case suffix beginning with a vowel is appended. To avoid a hiat, a glide /j/ may be inserted, so both of these are possible:

- (14) a. Aku lāas!
 Aka-u lā-as
 swallow-IMP tongue-P
 'Shut up!'
 b. Aku lāyas!
 (idem)
- I have gone years without /u:/, but it has always seemed slightly odd to me to lack a vowel in that position when all other vowels can be long. Therefore, and its adjective and barbarian (adj.)' were coined as produce prankayê—things 'that you put in specifically to make things fit', another new coining this decision resulted in.
- A variant which combines the allomorphs of the relativizer and the genitive case marker in the opposite way also exists: r = s t =

With diphthongs, /1/ coalesces with a following /j/ to /j/, but the initial vowel will not become tense, hence:

(15) ลักร์น tipuyya [tiˈpu.ja] 'on the grass' (grass-loc).

Moreover, /u/ is commonly realized as [w] when followed by a vowel, for example in உடிப் buākaya [ˈwaːkaja] 'frog' or த் rua- [rwa] 'have to, must'. [w] may also be an allophone of /uj/, as in ந்திப் adauyi [aˈdawi] 'then', ந்திப் edauyi [eˈdawi] 'now', or ﴿ وَالْمُ اللَّهُ ال

(16) อัฐกิจุลั mingoyay → minguay [mɪŋˈwaɪ] 'I cannot' (can-neg=isg.top).

1.2 Phonotactics

For the purpose of this statistical analysis, all of the available translations into Ayeri from late 2008 to July 2016 have been used as a text corpus;6 example sentences from various blog articles have also been added, as well as dictionary entries for all nouns, adjectives, adverbs, pronouns, adpositions, conjunctions, and numerals if they were not prefixes or suffixes.7 Borrowings have been deleted, if they could not reasonably be words in Ayeri. Altogether, the corpus comprises 5,500 words, which is a very small figure for such a study, but there are only so many texts available unfortunately. Words may occur more than once.

Among the dictionary entries, verbs have notably been ignored, since verb stems alone do not constitute independent words—they are always inflected in some way, so that they may end in consonants or consonant clusters that independent words cannot end in. This also has repercussions on syllabification and stress, which depend on the inflection of the verb stem:

- These texts are: A Medieval Neighborhood Dispute (2015), A Message from the Emperor (2012), Article 1 of the Universal Declaration of Human Rights (2011), The Beginning of Tolstoy's Anna Karenina (2014), Conlang Christmas Card Exchange 2008/09 (2009), Conlang Holiday Card Exchange 2010/11 (2011), Conlang Relay 15 (2008), Conlang Relay 17 (2010), Conlang Relay 18 (2011), The First Two Chapters from Saint-Exupéry's Le Petit Prince (2013), The Four Candles (2010), Honey Everlasting (2014), LCC4 Relay (2011), The Lord's Prayer (2015), The North Wind and the Sun (2016), The Origin of the Wind (2009), Ozymandias (2011), Please Call Stella ... (2008), Psalm 23 (2013), The Scientific Method (2014), The Sheep and the Horses (2012), Sugar Fairies (2011), The Upside-Down Ice Skater (2009). The texts can be accessed from Becker (2016: Examples).
- This section updates and extends a previous analysis of the phonological makeup of dictionary entries (Becker 2010). The previous study had its focus on gathering frequency statistics for word generation, however, we want to know about words generally here.

I.2. Phonotactics

Suffix	ca- 'love'	gum- 'work'	babr- 'mumble'
-ay (ISG)	cấy	gu.máy	ba.bráy
<i>-va</i> (2SG)	cá.va	gúm.va	ba.brá.va
-уат (РТСР)	cá.yam	gúm.yam	bá.bryam

Figure 1.3: Syllabification of inflected verbs

For the purpose of gathering statistics on phonemes, the words from translation texts were converted to IPA first. Fortunately, this is rather easy as Ayeri's romanization is very straightforward. Syllable breaks have also been inserted semi-automatically.

1.2.1 Number of Syllables per Word

First, let us see how many syllables words commonly have (see Table 1.1). The higher the syllable count, the more likely it is for them to be compounds or inflected words.

Table 1.1: Frequency of words with different numbers of syllables (n = 5500)
---	---

Segment	Count	Percentage
2 syllables	2277	41.40%
3 syllables	1393	25.33%
1 syllable	1201	21.84%
4 syllables	547	9.95%
5 syllables	74	1.35%
6 syllables	8	0.15%

Two-syllable words make up the bulk of the sample, which is not surprising since 1,072 (55.43%) of the dictionary subsample are bisyllabic words. Most of Ayeri's roots are bisyllabic; unsurprisingly, most monosyllabic words are function words like the ones cited below. In the following, I will quote a few examples for each number of syllables per word:

- (17) a. "yeng 'she' (she.A), § rua 'must';
 - b. La datau 'normal', 2312 nasay 'near to';
 - c. ลักจะราน avanyāng 'he sinks' (sink=3sg.m.A), มีการาน tovaley 'a cloak' (cloak-p.INAN);

- d. ซันวะว่า 2 hinyanveno (corner.beautiful, a place name), อักระ mitanena 'of the palace' (palace-GEN);
- e. zuก็บยาก haruyamanas 'a beating' (beat-PTCP-NMLZ-P), คุ้งสู่เวงสู่ zun sungkorankihas 'geography' (science.map);
- f. วูรโตยน์ kaytomayanena 'of righteousness' (righteous-NMLZ-GEN), วูรัยนน์กระวันว่ nasimayajang-hen 'all followers' (follow-AGTZ-PL-A=all).

Table 1.2 shows the frequencies of syllable types by position in a word. It is important to note here that phonemes which consist of more than one segment—affricates, diphthongs, and long vowels—have been counted as only one of C (consonant) or V (vowel), respectively. The following subsections will elaborate on which sounds the Cs and Vs correspond to. Moreover, it is important to note that medial syllables have not been further distinguished by position in the word for the sake of this analysis, so anything between the second and the fifth medial syllable is treated the same. It would furthermore be possible to calculate the frequencies of one syllable type following the other, however, no such calculations have been performed here.

In all positions, CV is the most common syllable type, followed by CVC. With a very big margin, V is the next most common syllable type, which is also most common in initial syllables and least common in monosyllabic words. The cases with only a few attestations are the following:

```
(18) a. Initial CVCC:
กุรัสโตกะ linktang /liŋk.'taŋ/ 'they try' (try=3PL.M.A),8
หักเกาะกะ silvnang /sılv.'naŋ/ 'we see' (see=IPL.A);
b. Final CCCV:
อังกัด migryo /'mi.grjo/ 'flourishes' (flourish-3sg.N),
หัวกัด subryo /'su.brjo/ 'ceases' (cease-3sg.N);
c. Single V:
วัด ay /aɪ/ 'I' (ISG.TOP).
```

The medial and final VC cases may seem like an oddity, but they are mostly due to the previous syllable ending in $/\eta$, with that syllable also containing a lax vowel, which means that this syllable must be closed. An alternative explanation would be to assume that $/\eta$ is ambisyllabic, or actually $/n.g - \eta.g$, but realized as $[\eta]$. The high number of single-syllable VC is due to any (AT), which alone appears 255

The verb stem is found in the dictionary as ried: linka-, with a final -a, and thus is possibly an entry changed at a later point, or the example from the text (Sugar Fairies) chosen here contains an error.

Table 1.2: Frequency of syllable types per word (n = 5500)

Type	In	itial	Me	Medial	Ħ	Final	Sin	Single	${ m To}$	Total
CV	2896	67.36%	1974	72.02%	2109	49.06%	8/5	48.13%	7557	60.26%
CCV	>>	1.28%	24	0.88%	46	1.07%	32	2.66%	751	1.25%
CCCV	'	I	ı	ı	7	0.05%	1	I	7	0.02%
CVC	19/	17.70%	019	22.25%	1902	44.24%	298	24.81%	3571	28.48%
CCVC	29	0.67%	OI	0.36%	85	%86·I	6	0.75%	133	0.06%
CVCC	7	0.05%	I	1	I	1	1	1	7	0.02%
V VC	488	11.35%	95	3.47%	67	1.56%	282	0.17%	652 466	5.20%
Total	4299	%00.00I	2741	100.00%	4299	100.00%	1201	100.00%	12540	100.00%

times in the sample (4.63% of all words, 21.23% of monosyllabic words, 90.43% of monosyllabic VC words).

1.2.2 Phonemic Makeup of Initial Syllables

The statistics in the following sections have been gathered from the IPA conversions of translated texts and dictionary entries mentioned above. The transcribed words have been split into syllables and then the collected contents of each position group were written into separate plain text files, one each for:

- all initial syllables of polysyllabic words,
- all medial syllables of polysyllabic words,
- all final syllables of polysyllabic words, and
- all monosyllabic words.

Monosyllabic words are both initial and final syllables at the same time; they have been counted separately for the purpose of this analysis. Onsets, nuclei and codas have been matched by regular expressions; the command line tools grep, sort, and uniq were used to aggregate all occurring variants for each syllable segment as well as their absolute frequencies:9

```
(19) C = (?:tʃ|dʒ|[ptkbdgmnŋvshrljw])
V = (?:[ae]:?r|aʊ|[ieaou]:?|[ɪεɔʊə])
```

As we have seen above (Table 1.2), CCV syllables only make up 1.28% of initial syllables, in so far it is no surprise that consonant clusters all appear at the bottom of Table 1.3. There also seem to be combination patterns in that initial clusters exist for all plosives plus /r/, and almost all bilabials plus /j/, with the exception of /bj/, however, /nj/ is added to the group instead. Combinations with /w/ only occur for /b/, /r/, and /s/, which do not share an obvious connection. Syllables without a consonant filling the onset position are marked with 'Ø'; these numbers correspond to the VC and VCC rows in Table 1.2.

Perhaps most striking about the nuclei of initial syllables presented in Table 1.4 is that it is plain vowels which occur most of the time. As mentioned above, lax vowels are counted here as allophones of tense ones as their distribution is complementary, which is why the plain vowels are presented as grouped. Long vowels and diphthongs find themselves below the 5% threshold, and the words with single occurrences are:

⁹ However, sort was unable to handle all IPA characters, so sed 'y/ɛɪɔʊə:ʃʒŋ/EIOU@:SZN/' had to be used to compensate by transcribing everything into X-SAMPA.

1.2. Phonotactics

Table 1.3: Frequency of onsets in initial syllables (n = 4299)

Phoneme	Frequency Percentag	
Ø	556	12.93%
S	488	11.35%
t	432	10.05%
m	418	9.72%
k	380	8.84%
n	375	8.72%
p	334	7.77%
b	231	5·37%
d	172	4.00%
v	164	3.81%
1	159	3.70%
r	134	3.12%
j	126	2.93%
g	III	2.58%
h	99	2.30%
t∫	30	0.70%
pr	27	0.63%
nj	27	0.63%
kr	8	0.19%
br	8	0.19%
tr	6	0.14%
dz	4	0.09%
gr	3	0.07%
W	2	0.05%
sw	I	0.02%
rw	I	0.02%
рj	I	0.02%
mj	I	0.02%
bw	I	0.02%

Table 1.4: Frequency of nuclei in initial syllables (n = 4299)

Phoneme		Frequency	Percentage
a		1847	42.96%
i		IOII	23.52%
	i	802	18.66%
	I	209	4.86%
e		705	16.40%
	e	523	12.17%
	ε	164	3.81%
	ə	18	0.42%
u		260	6.05%
	и	228	5.30%
	υ	32	0.74%
O		227	5.28%
	0	188	4.37%
)	39	0.91%
a:		109	2.54%
aı		88	2.05%
eı		40	0.93%
e:		4	0.09%
IC		3	0.07%
UI		I	0.02%
O:		I	0.02%
i:		I	0.02%
e:I		I	0.02%
au		I	0.02%

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- (20) a. A kuysān 'comparison', b. oʻzi nōn 'will, intention',

 - c. oža nīsa 'wanted',10
 - d. วุลุ่มน sēyraya 'will overcome' (FUT-overcome-3SG.M),
 - คิดวุ่ sautan 'cork'.

As [e:1] only occurs due to allophony, it should not be counted as a phoneme for the purposes of this analysis. On the other hand, the same could be said for a lot of cases of [a:] included here—this caveat applies to all nouns derived from verbs ending in -a with the very common nominalizing suffix at -an, as exemplified in (11) above. Similarly, the 18 cases of /ə/ reported here are mostly from tense prefixes also mentioned above, for instance, and some mentioned above, and some mentioned above.

Phoneme	Frequency	Percentage
Ø	344I	80.04%
n	298	6.93%
ŋ	243	5.65%
r	129	3.00%
1	88	2.05%
m	74	1.72%
S	20	0.47%
t	2	0.05%
h	2	0.05%
t∫	I	0.02%
ŋk	I	0.02%
lv	I	0.02%
k	I	0.02%

Initial-syllable codas (Table 1.5) are far less diverse than consonant onsets: there are only 10 attested segments in comparison to 28 for onsets (not counting empty codas of C(C)V syllables, which constitute the majority by a large margin), and the only two cluster attested are /ŋk/ in the word new linktang 'they try' (try=3PL.M.A), and /lv/ in the word Freggy silvnang 'I see' (see=IPL.A). There only being two incidences of a CC cluster is very probably an effect of the small sample size. Furthermore, the only unvoiced single coda consonants attested are /s/, /h/, /t/, /tʃ/ and /k/, the latter two only once, /h/ twice:

oža nīsa and ož nōn are both related to 2: no- 'want, plan'.

- (2I) a. פּלְינְאַרְילָ *mehvāng* 'you are supposed to' (be.supposed.to=2sg.A),¹¹ אָרָעָהָאָרָילָ *rohtang* 'they bite' (bite=3sg.M.A);
 - b. Sur mutva 'you rub' (rub=2SG.TOP),
 - c. ñal:ñal sik-sik 'tits';
 - d. rporp vacvāng 'you like' (like=2SG.A).

1.2.3 Phonemic Makeup of Medial Syllables

The onsets of medial syllables (Table 1.6) show properties very similar to those of initial syllables. The order of most common consonants may different here—for example, the most common onset is /r/, not Ø or /s/—, but there are no restrictions for which consonants to appear in this position, with the exception of /ŋ/ for reasons stated above (see section 1.2.1). Regarding initial clusters, there are further attestations for plosive plus /r/ (except for /kr/). Regarding clusters with /j/, the only one with a bilabial is /bj/, but the set is extended to /sj/ and /kj/. For clusters with /w/, only /sw/ and /kw/ occur here, while attestations for /bw/ and /rw/ as in initial-syllable onsets are lacking. This does not mean that those combinations are not principally possible in this position, however.

As with onset consonants, vowel nuclei of medial syllables (Table 1.7) do not show significant differences compared to those of initial syllables either. /a/ is more common here, and /o/ and /u/ switch places. Instead of /e:ɪ/, there is an attestation of /u:/ (see footnote 4), for which there is more reason to be counted as a phoneme than for /e:ɪ/. The sequences /i:/ and /uɪ/ also only occur once and twice, respectively, namely in the following words:

(22) a. ກລັກ pasīsa 'interesting'; b. ກິຊາໂຊາໂດ puluyley 'a mirror' (mirror-P.INAN), ລັຊາໂດ tipuyya 'on the grass' (grass-Loc).

The word in (22a), ng pasīsa 'interesting', should count as a lexeme in its own right, since it possesses idiomatic meaning. Nonetheless, it rather transparently constitutes a causative derivation of the verb ng: pasy- 'wonder, be curious, be interested', essentially meaning 'making one wonder/curious'—the causative suffix an -isa can as well be used to derive adjectives with a causative or resultative meaning.

With medial-syllable codas (Table 1.8) again, sonorants and /s/ make up the largest number of consonants in this position; /t/ and /g/ only occur once each in

The dictionary entry for the verb is g mya-, so this may be an instance of my changing a word in the dictionary with the old one staying in the text (The Four Candles).

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Table 1.6: Frequency of onsets in medial syllables (n = 2741)

Phoneme	Frequency	Percentage
Ø	123	4.49%
r	343	12.51%
n	260	9.49%
j	233	8.50%
t	222	8.10%
d	213	7.77%
k	189	6.90%
S	170	6.20%
m	169	6.17%
1	149	5.44%
v	148	5.40%
h	147	5.36%
p	119	4.34%
g	92	3.36%
b	89	3.25%
t∫	20	0.73%
dz	15	0.55%
tr	II	0.40%
dr	8	0.29%
pr	7	0.26%
\mathbf{w}	6	0.22%
sj	2	0.07%
br	2	0.07%
sw	I	0.04%
kw	I	0.04%
kj	I	0.04%
bj	I	0.04%

Table 1.7: Frequency of nuclei in medial syllables (n = 2741)

Phonen	ne .	Frequency	Percentage
1 Honen			Tercentage
a		1480	53.99%
i		480	17.51%
	i	387	14.12%
	I	93	3.39%
e		254	9.26%
	е	206	7.52%
	ε	48	1.75%
0		194	7.08%
	0	119	4.34%
	3	75	2.74%
u		120	4.38%
	и	IOI	3.68%
	U	19	0.69%
a:		IIO	4.01%
aı		51	1.86%
ΟI		33	1.20%
eı		5	0.18%
e:		5	0.18%
au		5	0.18%
UΙ		2	0.07%
u:		I	0.04%
i:		I	0.04%

- (23) a. การ์ตุกะรุ่ pangitlan 'money change' and
 - b. fare start telugtong 'they survive' (survive=3PL.N).12

The word for 'money' is ntime pangis, so (23a) is probably a compound, albeit not a fully transparent one. The word for 'change' is tila-, and there seems to be a nominalizing to an Ayeri allows noun-verb compounds to have a nominalized verb in the second position in spite of it being the head—noun-noun compounds mostly come in a head-initial order—probably due to an avoidance of placing a derivative suffix in the middle of a word. Possibly, what happened after all is that the tilan underwent metathesis to "tilan to match the rhyme of notify pangis. *notification of the nominalizing suffix) to notificate pangitlan.

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Phoneme Frequency Percentage Ø 76.36% 2093 n 11.42% 313 193 7.04% η r 48 1.75% 1.42% m 39 I.I7% S 32 1 0.77% 21 t 0.04% Ι 0.04% g

Table 1.8: Frequency of codas in medial syllables (n = 2741)

As documented in Table 1.2 above, Ayeri very strongly favors CV syllables in medial positions, hence the high count of zero segments here.

1.2.4 Phonemic Makeup of Final Syllables

The onsets of final syllables of polysyllabic words (Table 1.9) show the greatest amount of variety, which is due to Ayeri mostly using suffixes for grammatical purposes. Hence it is no surprise that combinations with /j/ and, indeed, /j/ itself as an onset, are especially common, since /j/ is also what a number of very common suffixes start with, for example the plural marker ½ -ye, the locative marker ½ -ya, the dative and participle marker ½ -yam, as well as third-person animate pronoun agreement suffixes, and the various first-person and third-person animate pronominal clitics. Figure 1.3 above shows exemplarily how verbs resyllabify when suffixes are attached. Even though single-segment onsets are strongly preferred, Cr, Cw, and especially C(C) is seem to be generally permissible.¹³

Nuclei of final syllables (Table 1.10) do not bear striking differences to nuclei in other positions. /a:/ comes out second here due to the common nominalizer az -an, which lengthens the vowel of verb stems ending in /a/, as demonstrated in (11). /aɪ/ is also fairly common here as it is the topic-marked first-person pronoun/pronominal clitic; for the same reason, /a:ɪ/ occurs a number of times—the

The sequence /sj/ poses difficulty here as there are examples for /Vs.jV/ as well as for /V.sjV/, and I cannot tell for sure if there is a strict rule in operation. It seems that /V.sjV/ is more likely to occur when the second syllable is stressed, whereas /Vs.jV/ is more likely to occur when the first syllable is stressed. Ayeri's own Tahano Hikamu orthography would not show the difference either, since /sja/ is spelled a either way, and there is no heeding morpheme breaks either. /CsjV/ will be /C.sjV/ in any case, since Ayeri avoids final consonant clusters if possible, see Table 1.2.

Table 1.9: Frequency of onsets in final syllables (n = 4299)

Phoneme	Frequency	Percentage	Phoneme	Frequency	Percentag
Ø	155	3.61%	pr	7	0.16%
j	IIOI	25.61%	kj	6	0.14%
n	528	12.28%	hj	5	0.12%
r	398	9.26%	bj	5	0.12%
t	268	6.23%	tw	4	0.09%
s	244	5.68%	sw	4	0.09%
1	238	5.54%	sj	4	0.09%
k	199	1.63%	kw	3	0.07%
d	199 184	4.03%	kr	3	0.07%
			br	3	0.07%
m	154	3.58%	vr	2	0.05%
v h	I44	3.35%	rw	2	0.05%
	128	2.98%	nw	2	0.05%
p	115	2.68%	t∫j	I	0.02%
g	103	2.40%	rj	I	0.02%
dz	73	1.70%	nj	I	0.02%
b	73	1.70%	mw	I	0.02%
t∫	52	1.21%	grj	I	0.02%
vj	26	0.60%	dv	I	0.02%
pj	22	0.51%	dr	I	0.02%
dzj	17	0.40%	brj	I	0.02%
tr	IO	0.23%		<u> </u>	0.0270
W	9	0.21%			

vowel-lengthening rule applies here as well, so its status as a phoneme is marginal. All instances of /e:/ in the sample are from the word and are from and state of a stat

The list of coda consonants in final syllables (Table 1.11) is very slightly more restrictive than even that of coda consonants in medial syllables (see Table 1.8), since the only non-sonorant attested is /k/, which only occurs in solution is sik-sik 'tits' again, which—besides being a vulgar term, thus maybe slightly more dispositioned to allow for deviating phonotactics—looks quite like onomatopoeia, possibly for the sound of sucking.¹⁴

¹⁴ Kroonen (2013: 489–490) identifies PGmc *sūgan-, *sūkan- 'to suck' as an iterative of PGmc *sukkōn-, *sugōn- 'to suck' and reconstructs PIE *souk-neh2-. However, he does not say anything about the Germanic word being onomatopoetic in origin.

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Table 1.10: Frequency of nuclei in final syllables (n = 4299)

Phoneme	Frequency	Percentage
a	2408	56.01%
a:	316	7.35%
0	411	9.56%
(298	6.93%
) II3	2.63%
i	289	6.42%
	147	3.42%
	i 142	3.30%
aı	254	5.91%
u	207	4.82%
ı	155	3.61%
Č	52	I. 2I %
e	209	4.85%
ě	I27	2.95%
é	81	1.88%
(? 1	0.02%
eı	103	2.40%
ΟΙ	42	0.98%
a:1	23	0.54%
UI	14	0.33%
au	14	0.33%
e:	5	0.12%
i:	3	0.07%
u:	I	0.02%

Phoneme	Frequency	Percentage
Ø	2224	51.73%
n	899	20.91%
ŋ	651	15.14%
S	244	5.68%
m	225	5.23%
1	34	0.79%
r	2.1	0.49%
k	I	0.02%

Table 1.11: Frequency of codas in final syllables (n = 4299)

1.2.5 Phonemic Makeup of Single Syllables

Onsets of single syllables (Table 1.12) appear to be the least varied category. Still, none of the basic set of consonant morphemes (see Figure 1.1) is missing—the frequency order is just completely different from the other onsets surveyed, not merely a mix of initial and final syllables. Consonant clusters with /j/, /w/ and /r/ exist here as well. Combinations with /j/ are only present for /m/ and /n/, while /r/ again combines with plosives; /w/ combines with /n/ and /r/ at least, which we have already seen in final-syllable onsets (see Table 1.9). Whereas /mj/ has only occurred once in initial-syllable onsets so far (see Table 1.3), it occurs a few more times here, all in the word a mya 'be supposed to', which is very commonly used as an indeclinable modal particle.

A consonant onset that can only be found in monosyllables is /ŋ/,¹⁵ in nas -ngas 'almost', a quantifier suffix that has managed to sneak in due to being marked as an adverb in the dictionary, since it can modify a verb:

(24) Apayeng-ngas.
Apa-yeng-ngas
laugh=3SG.F.A=almost
'She almost laughed.'

Here, and modifies the verb complex like any other adverb:

At least according to the analysis chosen here, see section 1.2.1 for an explanation.

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Table 1.12: Frequency of onsets in single syllables (n = 1201)

Phoneme	Frequency	Percentage
Ø	284	23.65%
n	231	19.23%
S	147	12.24%
j	144	11.99%
k	51	4.25%
v	48	4.00%
m	46	3.83%
1	44	3.66%
t	4I	3.41%
d	33	2.75%
r	26	2.16%
h	23	1.92%
mj	16	1.33%
p	13	1.08%
t∫	9	0.75%
g	9	0.75%
nj	8	0.67%
rw	7	0.58%
b	7	0.58%
pr	5	0.42%
dz	3	0.25%
tr	2	0.17%
nw	I	0.08%
ŋ	I	0.08%
kr	I	0.08%
br	I	0.08%

(25) Apayeng baho.

Apa-yeng baho laugh=3sg.f.A loudly 'She laughs loudly.'

However, whereas and baho 'loud' is treated as a separate unit in terms of intonation, ngas is unstressed and binds to what it follows:

- (26) a. הַאירוי:אוו Apayeng-ngas. [,apa'jɛŋas];
 - b. Apayeng baho. [apa'jɛŋ 'baxo].

Table 1.13: Frequency of nuclei in single syllables (n = 1201)

Phoneme		Frequency	Percentage
a		568	47.29%
aı		171	14.24%
a:		140	11.66%
i		113	9.41%
	i	65	5.41%
	I	48	4.00%
e		104	8.66%
	ε	65	5.41%
	е	34	2.83%
	ə	5	0.42%
0		45	3.75%
)	30	2.50%
	0	15	1.25%
u		20	1.67%
a:I		14	1.17%
ΟI		IO	0.83%
i:		6	0.50%
eı		5	0.42%
UI		3	0.25%
O:		2	0.17%

As with onset consonants of monosyllabic words, nuclei of this syllable type are the least diverse group again (Table 1.13). One segment that is notably absent

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is /au/, and the marginally phonemic /e:/ is not present either. By having /a/, /aɪ/, /a:/ at the top, monosyllabic words behave similar to final syllables of polysyllabic words (see Table 1.10), however, the order of the most common vowels bears more similarities to that of initial and medial syllables (see Tables 1.4 and 1.7). The very uncommon /o:/ features twice in this group, namely in two instances of the word $\sqrt[6]{2}$ $n\bar{o}n$ 'will, intention'. 16

Phoneme	Frequency	Percentage	
Ø	612	50.96%	
ŋ	377	31.39%	
n	105	8.74%	
s	58	4.83%	
m	36	3.00%	
1	6	0.50%	
h	4	0.33%	
r	3	0.25%	
		-	

Table 1.14: Frequency of codas in single syllables (n = 1201)

1.2.6 Cross-Syllable Consonant Clusters

Since a table detailing every combination with its absolute and relative frequency would be too large here, Table 1.15 gives the attested combinations ordered by brackets. As can be expected, bilabials cluster mostly with bilabials (74.11%), alveolars with alveolars (33.44%), and velars with velars (28.51%). However, at least for alveolars and velars, the score is even higher with /j/: 52.64% and 44.93%, respectively. /j/ is also the most common second consonant overall, at 47.8% of all consonant clusters; /n.j/ is the most common cluster at 25.35%. Alveolars provide the highest

Ayeri used to have $\frac{9}{82}$ -on as a nominalizer beside $\frac{1}{82}$ -an, however, it was not very productive and has long fallen out of use. $\frac{9}{82}$ $n\bar{o}n$ is thus, in fact, originally a nominalization of $\frac{9}{8}$: no-'want, plan'.

Interval [%]	Consonant cluster			
0.00 0.09	g.t, h.t, h.v, k.s, l.n, lv.n, m.bj, m.d, m.dz, m.l, m.n, m.pr, m.r, n.dv, n.g, n.h, n.w, ŋ.dʒj, ŋ.kw, ŋ.m, ŋ.n, ŋ.rj, ŋ.t, ŋk.t, r.b, r.dz, r.g, r.l, r.m, r.sj, r.tʃ, r.v, s.dz, s.h, s.l, s.n, s.p, s.v, t.v, tʃ.v (0.08%)			
0.10 0.24	l.bj, m.br, m.t, n.s, ŋ.b, ŋ.h, ŋ.p, ŋ.w, r.dʒj, r.pj, s.dʒj, s.m, t.l (0.16%); l.dʒ, l.p, m.k, n.sj, ŋ.dʒ, ŋ.g, ŋ.s, r.pr (0.24%) m.v, r.s, s.r (0.31%); n.r, s.t (0.39%); m.pj, n.dʒj, r.d (0.47%)			
0.50 0.74 0.75 I.00	η.kj, η.v, r.k, r.n (0.55%); l.b, l.t, η.r (0.71%) r.p, r.t (0.87%); l.vj (0.94%)			
1.0 2.4 2.5 4.9	m.j (1.18%); ŋ.l (1.34%); n.tʃ (1.50%); n.dʒ (2.13%); n.v (2.28%); l.j (2.36%) m.p (2.52%); s.j (2.60%); n.l (2.91%); l.v (3.15%); m.b (3.23%); ŋ.k (3.78%)			
5 ··· 9	n.t (5.28%); n.d (6.85%); ŋ.j (7.32%); r.j (8.98%) n.j (25.35%)			

Table 1.15: Frequency of cross-syllable consonant clusters (n = 1270)

variety of both first and second consonants, with 6 different phonemes making up 74.65% of C₁, and 8 different phonemes making up 28.74% of C₂.

Labiodentals and glottals occur least frequently, on the other hand: There is only one cluster with /v/ as a first consonant, namely, /lv.n/ (0.08%). For /h/, there are two, which are /h.v/ and /h.t/ (0.16%). Altogether, however, there are 97 combinations in /v/ (7.64%)—most commonly /l.v/ (3.15%) and /n.v/ (2.28%)—while there are only 4 in /h/ (0.31%): /n.h/, /s.h/, and twice $/\eta.h/$.

At 924 first consonants (72.76%), the nasals /m/, /n/, and /ŋ/ make up the largest group going by manner of articulation, followed by the tap/r/, which appears 175 times as the first consonant (13.78%). For second consonants, approximants constitute the largest group at 669 combinations (52.68%), followed by 387 pairs with plosives second (30.47%).

1.3 Notes on Prosody

1.3.1 Stress

Ayeri uses dynamic stress, that is, stress is primarily based on differences in the loudness of syllables. Which syllable is stressed depends on a mix of position of a syllable in a word and the shape of a syllable. English, on the other hand, possesses

a system where a certain syllable in a word will stay stressed even if prefixes or suffixes are added to a word:

(27) establish /ɪˈstæblɪʃ/ establishment /ɪˈstæblɪʃmənt/ disestablish /dɪsɪˈstæblɪʃ/ [English]

In all cases, stress stays on the second syllable of *establish*, whether a prefix or a suffix is added. Thus, it is not possible to predict the stressed syllable in a given word without knowing something about its morphology—one cannot simply count *n* syllables from the front or the back and reach a valid conclusion. German may be an even more illustrative example than English here, as it is still richer in morphology than English:

(28) reden /'re:dən/ 'talk' (talk-INF) [German]
redete /'re:dətə/ 'talked' (talk-PST-I/3SG)
geredet /gə're:dət/ 'talked' (PTCP-talk-PTCP)
überredete /,y:bər're:dətə/ 'persuaded' (over.talk-PST-I/3SG)

In all these words, stress remains on (the first syllable of) the word stem, as is typical of modern Germanic languages, no matter whether one or several affixes are added. The position of this syllable in a given inflected word is effectively variable, though, so counting syllables is, again, no use. In Ayeri, complications are slightly different. To demonstrate, the complete declension paradigm for *Fr niva* 'eye' will be given here:

Singular				Plural		
ТОР	niva	'the eye'	/ˈniva/	nivaye	'the eyes'	/niˈvajə/
A P DAT	nivāng nivās nivayam	'eye' 'eye' 'to eye'	/niˈvaːŋ/ /niˈvaːs/ /niˈvajam/ ¹⁷	nivajang nivajas nivajyam	'eyes' 'eyes' 'to eyes'	/ˌnivaˈdʒaŋ/ /niˈvadʒas/ /niˈvadʒjam/
GEN LOC CAUS INS	nivana nivaya nivaisa nivari	'of eye' 'at eye' 'due to eye' 'with eye'	/ni'vana/ /ni'vaja/ /ˌniva'isa/ /ni'vari/	nivayena nivajya nivajisa nivayeri	'of eyes' 'at eyes' 'due to eyes' 'with eyes'	/ˌnivaˈjena/ /niˈvadʒja/ /ˌnivaˈdʒisa/ /nivaˈjeri/

Figure 1.4: Declension paradigm for Ayeri z̄r niva 'eye'

The stress pattern /,I.2.'3/ is possible as well, also in the plural.

It may appear that in the table above, stress is always on the penultimate syllable, which is indeed the case for most forms quoted there, but compare the superficially unmarked form to nisa, which is bisyllabic with stress on the first (= penultimate) syllable, to the agent and patient singular forms, to nivāng and to nivās, respectively. These are also bisyllabic, however, they are stressed on the second (= ultimate) syllable. Similarly, compare the agent and patient plural forms to each other: the agent plural form to each other: the agent plural form to nivajang is trisyllabic and has its main stress on the third (= ultimate) syllable, while the equally trisyllabic patient plural form to nivajas is stressed on the second (= penultimate) syllable again.

It should have become clear that even though the basic form \tilde{z}_B nisa has first-syllable stress, /ni/ will not necessarily carry stress across the whole paradigm, as it would be the case in English or German. It should also have become clear that the basic algorithm to determine stressed syllables in Ayeri is based on counting syllables from the right edge of a word, although some complications need to be factored in.

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