

A Complete Guide to *Kakisti*

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Contents

1	Grammar	2
1.1	Phonetic Inventory	2
1.1.1	<i>Kakisti's</i> Consonantal Inventory	2
1.1.2	<i>Kakisti's</i> Vocalic Inventory	3
1.2	Syllabic Structure	4
1.3	Proto-language Sound Changes	5
1.4	Morphemes	5
1.5	Borrowed Words	6
1.6	Writing System	7
1.7	Word Order	7
1.8	Agreement	8
1.9	Case	8
1.10	Questions	9
1.11	Relative Clauses	9
1.12	Negation & N-Words	9
1.13	Numbers	10
2	Dictionary	11
2.1	Lexicon	11
2.2	Glosses	13
3	Translations	14
3.1	Examples	14
3.2	<i>This is Just to Say</i> by William Carlos Williams	16

1 Grammar

1.1 Phonetic Inventory

Kakisti's Phonetic Inventory is best described as a conglomeration of Spanish Vowels, English Consonants, and a smattering of Italian and Nahuatl Affricates. In total, the language has twenty consonants and five vowels.

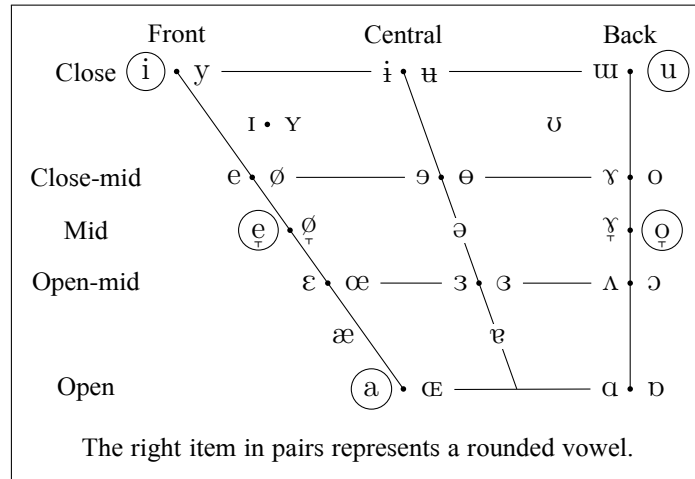
1.1.1 *Kakisti's* Consonantal Inventory

	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d				k g			ʔ
Nasal		ɱ					ɲ				
Trill				r							
Tap or Flap											
Fricative		f	ð	s				ɰ			
Lateral fricative				ɬ							
Lateral approximant							ʎ				
Lateral affricates				ʈ							
Silibant affricates				ʈs			ʈʃ				
Non-silibant affricates							ʃʃ				

* Symbols to the right in a cell are voiced, to the left are voiceless. Shaded areas denote articulations judged impossible.

1.1.2 *Kakisti's* Vocalic Inventory

Kakisti has a mixture of rounded and unrounded vowels. They are spread evenly positionally throughout the buccal cavity. The circled phonemes are those found in *Kakisti*.



The following table more explicitly shows *Kakisti's* phonemes and their names according to the International Phonetic Alphabet:

Consonants	Vowels
Voiced bilabial plosive: b	Open front unrounded vowel: a
Voiced dental plosive: d	Mid front unrounded vowel: e̞
Voiceless labiodental fricative: f	Close front unrounded vowel: i
Voiced velar plosive: g	Mid back rounded vowel: ɔ̞
Voiced palatal affricate: ʃʃ	Close back rounded vowel: u
Voiceless velar plosive: k	
Voiced labiodental nasal: ŋ	
Voiceless labial plosive: p	
Voiced alveolar trill: r	
Voiceless alveolar fricative: s	
Voiceless dental plosive: t	

Voiceless alveolar lateral affricate: $\widehat{t}\text{ɬ}$	
Voiceless dental and alveolar lateral fricatives: ɬ	
Voiced palatal nasal: j	
Voiceless postalveolar affricate: $\widehat{t}\text{j}$	
Voiced dental fricative: ð	
Voiceless labial–velar fricative: ɱ	
Voiced palatal lateral approximant: ɻ	
Voiceless alveolar affricate: $\widehat{t}\text{s}$	
Glottal stop: ʔ	

1.2 Syllabic Structure

1. In the language *Kakisti*, a syllable can take any of the following forms: **V**, **CV**, **VC**, or **CVC**. This allows the language to have one-letter words but excludes consonants from formulating full words. *Kakisti* was constructed this way to facilitate pronunciation and eliminate the possibility of large consonant clusters within words between words. That being said, the nucleus of the syllable is restricted to the five vowels, and if two vowels are together in a word they are placed in separate syllables.
2. In principle, not every consonant can succeed the nucleus. The following consonants cannot end a syllable: ɱ , $\widehat{\text{j}\text{j}}$, j .
3. Conversely, any consonant can precede the nucleus. This means that it is important to note the way in which compound words such as Icebox from *This Is Just To Say* are made. This is achieved by simply combining the translation of each individual word in succession. Generally, if two consonants appear next to each other in a word, this denotes a break between two syllables.

1.3 Proto-language Sound Changes

In the process of proto-*Kakisti* becoming the *Kakisti* we know and love today, four notable changes occurred:

1. Many vowel sounds were drastically changed from the proto-language. More precisely, all central vowels that shifted forward became unrounded regardless of being rounded or not at the time, and the central vowels that shifted back became strictly rounded.

(a) ə, ɜ, ɔ ⇒ ɛ̄

(b) ä, ɐ ⇒ a

(c) i ⇒ i

(d) ø, ɘ ⇒ ɔ̄

(e) ɯ ⇒ u

2. As a simplification to pronunciation, voiced affricates became voiceless with the exception of the palatal affricate. More generally, this means that sibilant affricates go from voiced to voiceless. Similarly, labial-velar sounds became voiceless.

(a) dz̄ ⇒ ts̄

(b) dz̄ ⇒ tʃ̄

(c) w ⇒ ɱ

3. In an opposing simplifying move, voiceless nasals became voiced, and voiceless dental fricatives became voiced.

(a) ɲ̥ ⇒ ɲ

(b) ɲ̥, ɲ̥ ⇒ ɲ

4. Glottal stops at the beginning of words became voiceless plosives because they are similar sounds at similar locations, but they flow better into vowels.

(a) ʔ ⇒ k

These sound changes occur in the order in which they have been listed.

1.4 Morphemes

Four morphemes of *Kakisti*:

1. The bound suffix -pi will attach to a noun root and be used to denote the plurality of a noun. Thus this is an inflectional morpheme.

- Plum = kuaɬɔ ⇒ Plums = kuaɬɔ-pi

2. The bound suffix $-uʔ$ will attach to a verb root and be used to denote the past tense of a verb, again rendering this an inflectional morpheme.
 - Have = ɲudis \Rightarrow Had = ɲudis-uʔ
3. The free prefix ɲɔʔ- is an inflectional morpheme that will attach to a noun and be used to denote the consumption of said noun.
 - Bird = $\widehat{\text{tʃigɔ}}$ \Rightarrow Eaten bird = ɲɔʔ-tʃigɔ
4. The bound prefix is ðuru- a derivational morpheme that means the earliest recollection you have of the bound root. It can attach to any part of speech.
 - Green = ɲagits \Rightarrow The first time that I can remember green = $\widehat{\text{ðuru-ɲagits}}$

1.5 Borrowed Words

Kakisti has borrowed words from the language *Wordl* that is currently being developed by Audrey Douglas.

1. Clear = bɹite \Rightarrow brite
 For the vowel change, it simply slides toward the nearest vowel available. In this case the Close-mid front unrounded vowel slides open into the Mid front unrounded vowel. Similarly, the non-native sound ɹ becomes a trill in *Kakisti* and turns into r .
2. Close = skœ:ɪg \Rightarrow skɛrg
 For this vowel change, the vowel now slides closed from the Open-mid front rounded vowel again to the Mid front unrounded vowel. Also, the ɹ becomes r .
3. Rayon = ʃameə \Rightarrow ʃamɔ̃a
 For this word there's a change from the non-existent consonant Voiceless postalveolar fricative, to the nearest approximate, the Voiceless dental and alveolar lateral fricative. Further, the Voiced labiodental nasal replaces the Voiced bilabial nasal because of the extremely similar mechanics between the two sounds. Finally, *Kakisti* does not have a Voiceless dental fricative, but it does have a Voiced dental fricative, so this becomes the replacement for that sound.
4. Frank = geɔ:ɪf \Rightarrow gɛrʃ
 Perhaps the most involved transition, an entire vowel is dropped from this word. Because both vowels are at the same location but vary only by the roundedness of the mouth, in *Kakisti* they are the same letter. Therefore, the Close-mid front unrounded vowel slides open into the Mid front unrounded vowel as before. Then the Voiced alveolar and postalveolar approximants is replaced by the Voiced alveolar trill, and the Voiceless dental

and alveolar lateral fricative once again replaces the Voiceless postalveolar fricative.

1.6 Writing System

Kakisti uses the Armenian alphabet for its writing system. It has both upper and lowercase letters. *Kakisti's* words are written right to left on a line, but the letters in each word are written left to right in a zigzag pattern. The vertical order is from the top of the page down to the bottom. Furthermore, the language marks word boundaries using a single space. Paragraphs are anti-indented, such that the top line of the block of text is closer to the right edge of the page than the subsequent lines.

IPA	<i>Kakisti</i> Symbols
a	Ա ա
b	Բ բ
$\widehat{tʃ}$	Ճ ճ
d	Դ դ
ɛ	Ե ե
f	Ֆ ֆ
g	Գ գ
i	Ի ի
$\widehat{jʃ}$	Չ չ
k	Կ կ
ʎ	Լ լ
ŋ	Մ մ

ɲ	Ն ն
ɔ	Օ օ
p	Պ պ
r	Ր ր
s	Ս ս
t	Տ տ
$\widehat{tʃ}$	Պ Պ
u	Ս ս
ð	Չ չ
ʌ	Ո ո
ʎ	Լ լ
\widehat{ts}	Փ փ
ʔ	Թ թ

1.7 Word Order

1. *Kakisti* has a rather conventional order for its subjects, objects, and verbs. It follows an SVO scheme, much like English does.
2. Unlike in English, however, adjectives are placed after the noun which they modify.
 - Փա գուհրա բռիտե \Rightarrow The box *clear*.
3. In terms of adpositions, *Kakisti* has both prepositions and postpositions. This is dictated by the relationship that the adposition conveys. If the

relationship is submissive, it is a postposition. If the relationship is domineering, it is a preposition. If no such relationship is connotated, the temporal relationship determines this in the same manner, and if neither exists, the language defaults to prepositions.

Examples of this phenomenon are:

- (a) Out (of) \Rightarrow In
- (b) Before \Rightarrow After
- (c) On \Rightarrow Under
- (d) Between \Rightarrow Beside
- (e) Above \Rightarrow Below

- 4. In *Kakisti*, complementizers go at the beginning of any embedded clause.
- 5. Adverbs go in front of the verb or adjective which they modify, unlike adjectives.

1.8 Agreement

Agreement in *Kakisti* is only between the verb and the subject. A direct parallel can be drawn between agreement in *Kakisti* and verb conjugation in *Italian*.

This is how the verb *sleep* conjugates:

	Singular	Plural
1 st Person	$\widehat{at}\widehat{jit}\widehat{j}\text{-}\varnothing$	$\widehat{at}\widehat{jit}\widehat{j}\text{-}ian\varnothing$
2 nd Person	$\widehat{at}\widehat{jit}\widehat{j}\text{-}i$	$\widehat{at}\widehat{jit}\widehat{j}\text{-}it\varnothing$
3 rd Person	$\widehat{at}\widehat{jit}\widehat{j}\text{-}\varnothing$	$\widehat{at}\widehat{jit}\widehat{j}\text{-}\varnothing\varnothing$

Notably, when a verb is not in the present tense, the morpheme for the tense will go before the verb agreement morpheme.

1.9 Case

- 1. *Kakisti* does not have a nominative/accusative or ergative/absolute case that is explicitly marked by any overt morphology. I & me are the same word, so the order in which they are placed around the transitive verb denotes the agent and the object.
- 2. However, *Kakisti* does have an attributive/genitive case. The morpheme is $\text{-}\varnothing i$ such that:
 - (a) My dog \Rightarrow $a\text{-}\varnothing i$ tadi
 - (b) Your dog \Rightarrow $\varnothing\text{-}\varnothing i$ tadi
 - (c) His dog \Rightarrow $\text{m}\varnothing\text{-}\varnothing i$ tadi
 - (d) The dog's cat \Rightarrow \widehat{tsa} tadi- $\varnothing i$ tad \varnothing

1.10 Questions

In terms of punctuation, questions in *Kakisti* use the following marking at the end to replace the English Question Mark: δ , and it is also placed at the end of the last word in the sentence. Because of *Kakisti's* writing system, this means that the mark will be to the right of the word, but on the left-most word in the question on the current line.

1. Wh-Questions:

These questions are created by adding the Wh-Question word at the beginning of the sentence and prepending a particle, $\widehat{t\ddot{h}i}$, to the Wh-Question word.

- (a) You ate the plum. \Rightarrow Who ate the plum?
 $\underset{\uparrow}{\text{e}} \underset{\uparrow}{\text{m}\ddot{o}}\underset{\uparrow}{\text{f}}\underset{\uparrow}{\text{u}}? \widehat{\text{tsa}} \widehat{\text{kuat}\ddot{o}} \Rightarrow \widehat{\text{itse}}\widehat{\text{-t}\ddot{h}i} \widehat{\text{tsa}} \widehat{\text{kuat}\ddot{o}}$
- (b) The language is this one. \Rightarrow Which language is this one?
 $\widehat{\text{tsa}} \widehat{\text{no}}\widehat{\text{f}}\widehat{\text{or}} \widehat{\text{ke}}\widehat{\text{ge}} \widehat{\text{tsu}} \widehat{\text{aku}} \Rightarrow \widehat{\text{t}\ddot{h}i}\widehat{\text{-utse}} \widehat{\text{no}}\widehat{\text{f}}\widehat{\text{or}} \widehat{\text{ke}}\widehat{\text{ge}} \widehat{\text{tsu}} \widehat{\text{aku}}$

2. Yes/No Questions:

In *Kakisti*, Yes/No questions are formulated by adding a particle, $\widehat{t\ddot{h}i}$, to the beginning of the sentence. This is done because the languages makes a concerted effort to announce to the listener that the upcoming string of words will be a question.

- You are cold. \Rightarrow Are you cold?
 $\widehat{\text{dar}\ddot{o}}\widehat{\text{t}\ddot{h}i} \widehat{\text{e}} \widehat{\text{jjura}} \Rightarrow \widehat{\text{t}\ddot{h}i} \widehat{\text{dar}\ddot{o}}\widehat{\text{t}\ddot{h}i} \widehat{\text{e}} \widehat{\text{jjura}}$

1.11 Relative Clauses

In *Kakisti*, relative clauses begin with relative pronouns, such as which and who. They are placed after the noun or pronoun which they modify.

- Ice that is clear is cold. \Rightarrow δ obaf $\widehat{\text{tse}} \widehat{\text{ke}}\widehat{\text{ge}} \widehat{\text{brite}} \widehat{\text{ke}}\widehat{\text{ge}} \widehat{\text{jjura}}$

1.12 Negation & N-Words

In *Kakisti* words and phrases are negated through the use of “no” and “not.” When what is being negated is a noun, ju? (no) is placed in front of the word. On the other hand, when what is being negated is a verb, such as would be the case for a scenario in which we wish to indicate our inability to do something, we can place ju (not) in front of the verb. The negating particle is placed before the negated item because *Kakisti*, at the risk of anthropomorphizing it, wishes to impart expectations to the listener as soon as possible to expedite communication and comprehension.

- (a) No men are smart. \Rightarrow ju? $\widehat{\text{jjem}}\widehat{\text{u}}\widehat{\text{t}}\widehat{\text{pi}} \widehat{\text{dar}\ddot{o}}\widehat{\text{t}}\widehat{\text{on}}\widehat{o} \widehat{\text{jjat}}\widehat{\text{h}i}$
- (b) No physics problems are clear. \Rightarrow ju? $\widehat{\text{b}\ddot{o}}\widehat{\text{k}\ddot{e}}\widehat{\text{t}}\widehat{\text{f}}\widehat{\text{e}} \widehat{\text{b}\ddot{o}}\widehat{\text{r}}\widehat{\text{m}}\widehat{\text{e}}\widehat{\text{t}}\widehat{\text{pi}} \widehat{\text{dar}\ddot{o}}\widehat{\text{t}}\widehat{\text{on}}\widehat{o} \widehat{\text{brite}}$
- (c) All birds are not the same. \Rightarrow $\widehat{\text{ogib}}\widehat{\text{e}} \widehat{\text{t}}\widehat{\text{ji}}\widehat{\text{g}}\widehat{\text{opi}} \widehat{\text{ju}} \widehat{\text{dar}\ddot{o}}\widehat{\text{t}}\widehat{\text{t}} \widehat{\text{tsa}} \widehat{\text{t}}\widehat{\text{f}}\widehat{\text{o}}\widehat{\text{u}}$

1.13 Numbers

Kakisti is base 3. This means it only has the numbers zero (no), one, and two. Three had great religious and historical meaning to the speakers of proto-*Kakisti*, and the language has not developed since past this numeral. Furthermore, the language has a highly regular number system such that any number is created by appending additional 0s, 1s, or 2s to the right of the number. Since individual words in *Kakisti* are written left to right, this means that the number is built up from zero to the highest order of three.

2 Dictionary

2.1 Lexicon

<i>Kakisti</i>	<i>English</i>
a	I
akitoreŋo	Probably
aku	One
amotŋ	Book
atŋitŋ	Sleep
bart-ite	Found
biŋŋo	Old
boketŋe	Physics
bormet	Problem
botŋero	Song
brite	Clear
buf	See
burtŋe	Anybody
dak	To
dantsom	Dance
darotŋ	Are
ðifer	Can
ðobaf	Ice
ðobafguriŋa	Icebox
ðopeŋ	Sweet
e	You
etŋe	What
fad	Do
fus	Small
gagotŋi	Saving
gerŋ	Frank

guriŋa	Box
ira	Two
itŋe	Who
ŋatŋis	Smart
ŋeŋ	Person
ŋeŋitŋ	Woman
ŋeŋuŋ	Man
ŋjura	Cold
kak	Hack
keŋ	Is
ketŋa	Steal
kopureði	Delicious
kori	With
kuato	Plum
kuse	Thing
ŋanðŋa	Rayon
ŋasetŋ	Leave
ŋabiso	Damage
ŋapet	Talk
ŋebiko	Table
ŋifed	Paper
ŋjao	We
ŋeŋbag	House
ŋifutapus	Hunter
ŋiti	Better
ŋotŋu?	Eaten
ŋjure	Love

ᵛagits	Green
ᵛakatɫ	Rabbit
ᵛat	So
ᵛoɫoɾ	Language
ᵛu	Not
ᵛudis	Have
ᵛuʔ	No
o	Or
oɾrareḡ	Mexico
oḡibe	All
oḡoɫ	Place
oreḡpide	Breakfast
oɫɫika	Hear
peḡeɫ	Chase
pipa	How
putɫe	Cloud
ratsa	Girl
reḡniḡju	Think
reḡ	For
reḡoɾe	Forgive
rista	Word

sitɫa	Smarter
skεḡ	Close
soɫu	Under
suf	Big
sutε	alone
tadi	Dog
tado	Cat
tɫo	A
tɫsa	The
tε	That
tɫsu	This
tɫḡiḡo	Bird
tɫoɫu	Same
u	And
utε	Which
me	He
meḡi	They
mi	She
miba	Many
mike	In
muɫib	Live

2.2 Glosses

Abbreviation	Morpheme	Meaning
1	-o	1 st Singular <i>agreement</i>
2	-i	2 nd Singular <i>agreement</i>
3	-e	3 rd Singular <i>agreement</i>
1SG	a	1 st Singular <i>pronoun</i>
2P	-ite	2 nd Plural <i>agreement</i>
2SG	e	2 nd Singular <i>pronoun</i>
3P	-o ₁ o ₂	3 rd Plural <i>agreement</i>
3PL	me ₁ mi	3 rd Plural <i>pronoun</i>
3SG.F	mi	3 rd Singular Feminine <i>pronoun</i>
3SG.M	me	3 rd Singular Masculine <i>pronoun</i>
ADZ	-e ₁ o	Adverbizes <i>adjectives</i>
AGN	mifu-	Agent nominalization of <i>verb</i>
:COMP	<i>Various</i>	Comparative <i>adjective</i>
CORJ	u, o	Coordinating <i>conjunctions</i>
DART	t ₁ sa	Definite <i>article</i>
DET	t ₁ se	Determiner
IART	t ₁ o	Indefinite <i>article</i>
PLU	-pi	Pluralization of <i>noun</i>
PRET	-u?	Preterite <i>verb</i>

3 Translations

3.1 Examples

փա	ժիգօ	նենիջլթե	փե	նե	բւֆլթե	խօ	տաղօ
tsa	tʃigɔ	reɲijj-uʔ-e	tʃe	me	buf-uʔ	tʃɔ	tadɔ
The	bird	think-PRET-3	that	3SG.M	see-PRET-3	IART	cat

“The bird thought that he saw a cat”

փա	միֆտապու	պեպետլթե	փա	նակախ
tsa	mifutapus	pepet-uʔ-e	tsa	nakatʃ
DART	AGN-hunt	chase-PRET-3	DART	rabbit

“The hunter chased the rabbit”

փա	տաղի	կեգլթ	փա	աժիժե	ընկիբօ	սօչլ
tsa	tadi	keg-uʔ	atʃitʃ-e	tsa	ʌkibɔ	sɔʃu
DART	dog	is-PRET	sleep-3	DART	table	under

“The dog was sleeping under the table”

փա	նափա	օգօլե	փա	բիջօդ	ամօխալի	խօ	սֆ	գուրլա	նիկե
tsa	ratsa	ogɔl-uʔ-e	tsa	bijɔd	amɔtʃ-pi	tʃɔ	suf	guriʌa	mike
DART	girl	place-PRET-3	DART	old	book-PLU	IART	big	box	in

“The girl placed the old books in a large box”

ա	նդիսօ	խօ	տաղօ
a	ɲudisj-ɔ	tʃɔ	tadɔ
1SG	have-1	IART	cat

“I have a cat”

ա	կեգե	խօ	տաղօ
a	keg-ɔ	tʃɔ	tadɔ
1SG	is-1	IART	cat

“I am a cat”

նի	կեգե	սիխա	ե
mi	keg-e	sitʃa	e
3SG.F	is-3	smart:COMP	2SG

“She is smarter than you”

փե	ջեմլ	կեգե	ըապետ	դակ	ժօլ	նե
tʃe	ʃjemɯʃ	keg-e	ʌapet	dak	tʃɔʃu	me
DET	man	is-3	talk	to	same	3SG.M

“That man is talking to himself”

ա նի չիՖեռ օխիկաօ եպի
 a nu ðifer ɔtʰka-ɔ ɛ-pi
 1SG not can hear-1 2SG-PLU
 “I can’t hear you”

ա նի բւֆօ բռիսե
 a nu buf-ɔ burtʰɛ
 1SG not see-1 anybody
 “I don’t see anybody”

նրօ բռիսե ուրիբօնօ ղիկե փե մեբագ
 nu? burtʰɛ muɽib-ɔɽɔ mikɛ tʰɛ ɲɛbag
 no anybody live-3P in DET house
 “Nobody lives in that house”

դանփօմիսե կօռի ա
 dantsɔɲ-itɛ kɔri a
 Dance-2P with me
 “Dance with me!”

լասեթիսե կսեպի պիպա բառտիսե ռեռի օ միլի
 ʎasɛts-itɛ kuse-pi pipa bart-itɛ ɽɛmi ɔ ɲiɽi
 Leave-2P thing-PLU how found-2P 3PL CORJ good:COMP
 “Leave things as you found them – or better”

լասեթիսե նրօ ըաբիսօ
 ʎasɛts-itɛ nu? ʎabisɔ
 Leave-2P no damage
 “Leave no damage”

նրօ տեկաիսե կսե
 nu? kɛta-itɛ kuse
 No steal-2P thing
 “Do not steal anything”

նրօ կակիսե սսե
 nu? kak-itɛ suɽɛ
 no hack-2P alone
 “Do not hack alone”

3.2 *This is Just to Say* by William Carlos Williams

ա նդիս մօլթ
a nudis ɲoɬ-uʔ
1SG have eat-PRET
“I have eaten”

մօլթ փա
tsa kuaɬo-pi
DART plum-PLU
“the plums”

փե դառօիսօնօ ոիկե
tsɛ daroɬi-uʔ-ɔɲo miɛ
that are-PRET-3P in
“that were in”

փա չօբաֆգուրիլա
tsa ʃobafguriɬa
DART icebox
“the icebox”

և սփե
u utɛ
CORJ which
“and which”

ե դառօիսրիսե ալիսոնեյօ
ɛ daroɬi-uʔ-itɛ akitɔr-ɛɬo
2SG are-PRET-2P probably-ADZ
“you were probably”

գագօփի
gagɔts-i
save-2
“saving”

ռեպ օռեպիդե
rɛp ɔrɛpidɛ
for breakfast
“for breakfast”

նեպօռե ա
rɛpɔrɛ a
Forgive 1SG
“Forgive me”

նեղի դառօխարօնօ չօպեմ
mɛmi darɔtʰi-uʔ-ɔɔɔ kɔpɔrɛθi
3PL are-PRET-3P delicious
“they were delicious”

չօպեմ նաս
θɔpɛɲ nat
sweet so
“so sweet”

ւ ջուա նաս
u ʃʃura nat
CORJ cold so
“and so cold”