# Fiat Lingua

Title: Omyatloko Logosyllabary for Kala

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The logosyllabary Omyatloko for the Kala conlang.

Developed and created by Carl Buck



A pangram of all syllable vowel markers, and at least one consonant each.

Omyatloko Logosyllabary for Kala
"What gives any particular element of language its role in the language is not its superficial physical properties but, rather, the relationships it enters into with
the other elements of the language." (Sampson, pg 12)

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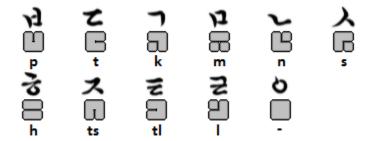
## **Omyatloko Logosyllabary**

#### Introduction

The "omyatloko" (syllable carving) script is primarily meant to be an epigraphic system, but a handwritten version is possible, and there is a "text" version as well. It is designed to be reminiscent of Mayan glyphs, Cuneiform, Japanese Kanji, or Chinese Hanzi. Along with the obvious natural language inspirations, several constructed scripts have motivated the creation of Omyatloko; <a href="Pseudoglyphs">Pseudoglyphs</a>, <a href="Mayanguage">Kamakawi</a>, <a href="Tepat">Tepat</a>, and <a href="Sitelen">Sitelen</a>. The glyphs are logosyllabic, combining about a thousand logograms (which represent whole words) and 220 syllabograms (which represent syllables).

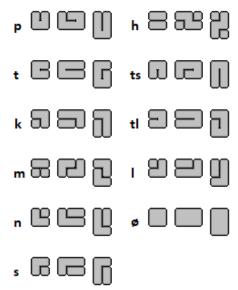
## **Syllabograms**

The base consonant glyphs were directly inspired by Hangul.



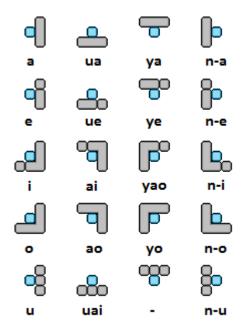
## **Consonants**

Each consonant has three forms. The form used depends on the vowel added when making the syllable glyph. ( $\phi$  = null consonant) These are arranged in the **pataka** order, explained <u>below</u>.



#### **Vowels**

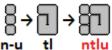
Vowel markers are designed to convey articulation of vowels, as well as palatalization or labialization. Consonantal pre-nasalization and diphthongs are also indicated. The blue squares in the chart below indicate the position of the consonant glyphs.



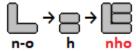
Based on the 20 vowel markers, and the 11 consonant components, there are 220 possible syllabograms, however, 84 of these are disallowed based on **Kala** phonotactics. A few good examples are "lyao", "ntlu", and "nho".



The vowel combination [jaʊ̯] and the consonant [l]; the syllable "lyao" does not occur in Kala, and the glyph is - as yet - undefined.



The vowel radical for a pre-nasalized consonant followed by the vowel [u] is placed to the left of the consonant component, in this case [tl]. The syllable "ntlu" does not occur anywhere in Kala, so the glyph is used for the word "nyoma", meaning 'rice'. It can be interpreted as a "hand cupping grains of rice", so it becomes pictographic.



The vowel [n-o] and the consonant [h]; the syllable "nho" does not occur in Kala, so the glyph is used as an ideogram for the word "atsi", meaning 'angle'.

## Logograms

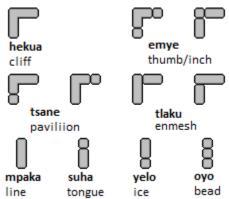
While the syllabogram signs are *phonograms*, whose meaning is determined by pronunciation, independent of visual characteristics, the logograms, by contrast, are dependent on meaning and whose sounds may alter based on usage.

#### **Radicals**

Kala logograms can be pictographic, or ideographic. In the context of logograms, vowel markers are considered radicals, and consonants become components. Radicals, unlike the semantic radicals of Hanzi or Kanji, are most often only visual references, however, can occasionally indicate some semantic information. Components are sometimes associated with pictographic forms they may resemble.



Each of these positional radicals can appear in various ways, and each variation is based on its appearance:



The categorization of glyphs by radical is most often based on the syllabogram that each glyph is derived from. It is similar to the radical categories of Japanese, such as *hen, tsukuri, ashi, tare, nyō*, etc.

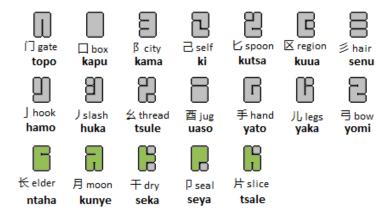
The basic formula for glyph formation is;

(This means that "yama" falls in the "gate" component category, modified by the "nta" position radical)

Or; radical + component (+ modification) = glyph | vowel + consonant = syllable

## Components

The components for many logograms are borrowed, loosely, from various Mayan glyphs, as well as, CJKV ideographic radicals and components. The image below shows the 14 primary components used. Those in green were used in a previous version and may or may not be found in a few glyphs.



## **Reading of Glyphs**

Due to the similarity of glyphs across components and the limited number of variations, glyphs are read from top to bottom, or left to right, depending on formation, in order to collate, categorize, and annotate. The glyphs tend to be classified by the full version of the component before the half-size version. Examples follow.



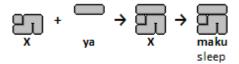
Here we see **muata** "manners; be polite; politeness" being categorized with the **hamo** component and the **nya** positional radical rather than the **senu** component and the **mpo** positional radical. This is based on the reading order of 'top to bottom before left to right'.

The composition of some glyphs leaves open the possibility that it can be categorized in one of several ways. The above could be a combination of the *hamo* and *topo* components, or a modified version of the phonotactically disallowed syllables *lua* or *tye*. Based on the 'TBLR' reading order, it would be collated under the *hamo* component.

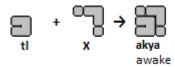
## **Examples**

Here are some examples:

This example has the consonant [k] with the vowel [o] making the syllable "ko", but when altered slightly, it makes the ideograph "tanka", or 'eagle'. This means that the "tanka" glyph has the "ohi" radical as that corresponds to the vowel [o].



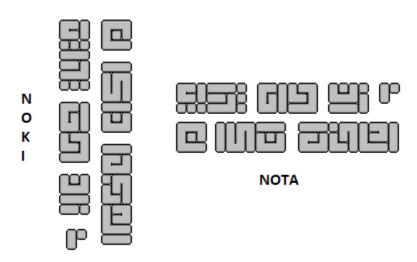
This is an example of a component lacking an inherent phonetic value. Though, when the "**nya**" radical is placed above it, it resembles a person with a blanket over them, thus, the meaning "sleep".



This glyph features the consonantal component "tl" but a radical that has no corresponding vowel.

## **Writing Direction**

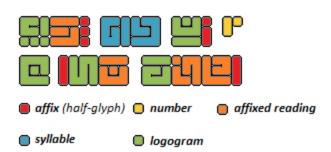
**Omyatloko** glyphs are written in vertical ("**noki**") columns from top-to-bottom, and left-to-right. They can also be written in horizontal ("**nota**") lines.



umanalo tayo tlanan tsa'o nahe yenahaka amopayek /uma'na:lo 'ta:jo 't͡+a:nan 't͡sa:ʔo 'na:hɛ jena'ha:ka amo'pa:jek/ uma-na-lo ta-yo tlana-n tsa'o nahe ye-naha-ka amo-pa-ye-k horse-FEM-PL 2SG.GEN people-ACC six into DIST-stream-AUG carry-ABIL-PST-NEG Your mares were unable to carry the six people into that river over there.

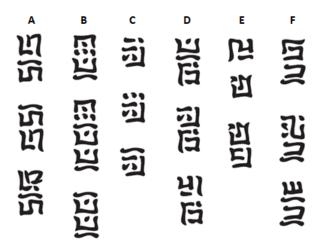
## Glyph types

All glyph types are used in the above example.



## **Contextual Reading**

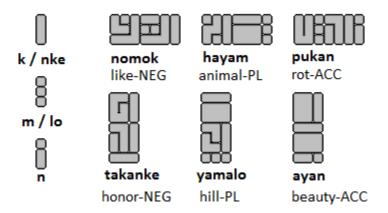
Many of the glyphs serve multiple roles, meaning they have full use as a noun, verb, or both, but they may also be used as particles and/or affixes. This is called **yontile** "context (circumstance reading)". The primary meaning, or reading, is called **otomyena** "surface sound", and the reading when affixed, **otoleka** "attached sound". What follows are a few examples of this.



- A1) opua + tsoya > opuatso meaning "half-finished"
- A2) tsoya + opua > tsoyapua meaning "(has been) halved"
- A3) kunye + tsoya > kunyetso meaning "half-moon"
- B1) kama + tlana > kamako meaning "villager; town-folk"
- B2) kama + taha + tlana > kamahatlo meaning "urbanite; city-folk"
- B3) taha + tlana > tahako meaning "large person"
- C1) i- (proximal) + mo (place; location) > hina meaning "this place; here"
- C2) ua- (medial) + mo (place; location) > uana meaning "that place; there (by you)"
- C3) **ye-** (distal) + **mo** (place; location) > **yemua** meaning "that place; over there"
- D1) tlana + ula > kola meaning "someone"
- D2) mo + ula > mola meaning "somewhere"
- D3) noma + ula > nola meaning "something"
- E1) muya ka meaning "(what are you) doing?"
- E2) kanyo + to > kanyoto meaning "interrogative"
- F1) uaka + kutsu > uakatsu meaning "beef"
- F2) mano + kutsu > manotsu meaning "poultry"
- F3) masa + kutsu > masatsu meaning "venison"

## **Other Symbols**

Plurals, negatives, and accusatives are marked with suffixed symbols that do not constitute full glyphs. These are referred to as "**ekalo**". In the **noki** direction they are appended to the bottoms of glyphs, and in the **nota** they are added to the right of the glyph.



## **Deixis**

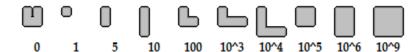
Deixis is marked with similar symbols that do not constitute full glyphs. They are prefixed to glyphs, on top in the vertical and initially in the horizontal directions.



In the above sample **tsaka** (meaning "house") is rendered with each prefix. The top is the vertical method, and the bottom is the horizontal.

# **Numeral Glyphs**

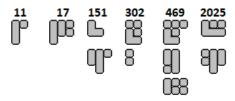
Numbers are formed from basic value glyphs arranged to convey large amounts.



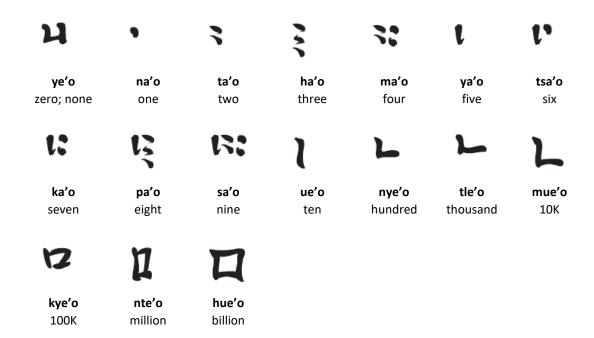
## One through Ten



## **Higher Numbers**



#### **Numerals**



## **Writing Styles**

"Omyatloko" is primarily meant as a decorative epigraphic script. However, I have developed two other styles that are based on the primary script. The handwritten style of "omyatloko", called "yatoyo" utilizes the logograms, and does use the "ekalo", but can often consist of only syllables. The textual (font-like) style, like the monumental, uses all glyphs consistently and can be referred to as "tlokohi" or "small syllable".



umanalo tayo tlanan tsa'o nahe yenahaka amopayek /uma'na:lo 'ta:jo 'tta:nan 'tsa:?o 'na:hɛ jena'ha:ka amo'pa:jek/ uma-na-lo ta-yo tlana-n tsa'o nahe ye-naha-ka amo-pa-ye-k horse-FEM-PL 2SG.GEN people-ACC six into DIST-stream-AUG carry-ABIL-PST-NEG Your mares were unable to carry the six people into that river over there.

#### **Brush Stroke Order**

The basic principles for writing "yatoyo" are simple, namely that writing characters should be economical, with the fewest hand movements to write the most strokes possible. This promotes writing speed, accuracy, and readability. This idea is particularly important since as learners progress, characters often get more complex. Hence, stroke order aids learning and memorization.

#### General Guidelines:

write from top to bottom, and left to right horizontal before vertical outside before center (unless otherwise indicated) dots and minor strokes last

Because each glyph uses all nine points in a 3×3 grid, each point is named to define and explain stroke order; this is called "yatopa'a":



## A few examples:



**kuatla** – pa-te-ne : ma-ne : ma-ua-yo : ko-yo

maua – pa-ua-yo : te-ne-so : ko yama – pa-ua-yo : te-le : ko-yo

anya – pa-ua : pa-ko : le-yo : so-yo : ne

In these examples you can see that each point is not pronounced or listed as it may not be a juncture or stopping point for the brush. However, each point is covered by the brushstroke. A colon ":" marks a raise of the pen/brush.

## **Example**



aye | seko nahapuanihue kuetso ma sahen nya to halinko | ampa o tsolan anya | o tsola te mutahue nahan sahe teya | kye tsola nke nye na muya yo tena kute ma ena nuesitli | seko tsolan koso ke uala na muyatli yo nantao nuesi | po tsola omopua ma nkata | po seko mutan te tsola uaya ma tsola yokomu | ehe nahan sahetsonko seko elo kute | naye silalon hoyo tsemanko seko ka'e tsola kaue ma o kye nye muyaye ka...ima ta nuesi | seko kye na'i tlanipak...itla katan nayo

it was | scorpion river-bank-LOC stroll and across-ACC for way wonder-PROG | sudden 3s.ANIM fox-ACC see | 3s.ANIM fox of back-LOC river-ACC across request | was-said fox no because 1s do then 2s-P.1s sting and P.1s drown-FUT | scorpion fox-ACC assure TOP verily 1s do-FUT then both.of.us drown | so fox think-PFV and agree | so scorpion back-ACC of fox ascend and fox swim-INCH | but river-ACC across-half-PROG scorpion P.3s bite | during vein-PL-ACC 3s.ANIM.GEN overflow-PROG scorpion toward fox look.at and 3s was.said because do-PST Q now 2s drown | scorpion was.said 1s.REFL cease-ABIL-NEG this essence-ACC 1s.GEN

"A scorpion was walking along the bank of a river, wondering how to get to the other side. Suddenly he saw a fox. He asked the fox to take him on his back across the river. The fox said, "No, if I do that, you'll sting me, and I'll drown." The scorpion assured him, "If I did that, we'd both drown." So, the fox thought about it and finally agreed. So, the scorpion climbed up on his back, and the fox began to swim. But halfway across the river, the scorpion stung him. As the poison filled his veins, the fox turned to the scorpion and said, "why did you do that? Now you'll drown too." "I couldn't help it," said the scorpion. "It's my nature.""

# **Glyph Dictionary**

The glyphs are listed below in the "handwritten" style, by <u>component</u>, then positional <u>radical</u>, finally, by **pataka** order, explained below. Syllables in red, like **(tyo)**, indicate the glyph is formed from a phonotactically disallowed syllable.

#### Example:

## **Collating Order**

The "pataka", or collating sequence (alphabetical order) is based on the order established in the Naua script.

Consonants	р	t	k	m	n	S	h	ts	tl	I
Vowels	а	е	i	0	u	ua	ue	ya	ye	yo

Based on this order, **ma** would come before **ha**, etc. Prenasalized syllables are ordered after their non-prenasalized counterparts, i.e., **mpa** comes after **pyo** but before **ta**. To see the collating sequence in action, look through the lexicon. This order can be vocalized as "pa, ta, ka, ma, na, nya, sa, ha, tsa, tla, ua, la, ya, a", this aids in memorization and organization.

#### **The Fourteen Primary Components**

nlln	1112	Ea	27	F 7	<b>B</b>	多艺艺
topo	<u>kapu</u>	<u>kama</u>	<u>ki</u>	<u>kutsa</u>	<u>kuua</u>	<u>senu</u>
ากิล	13	出卐	西方	手刀	儿Ц	弓已
<u>hamo</u>	<u>huka</u>	<u>tsule</u>	<u>uaso</u>	<u>yato</u>	<u>yaka</u>	<u>yomi</u>

# Topo (gate)

# nlln

## MYO

iri	ĩĽ	M	E	!ជ	Si	in	Tri
pale	poke	pyaka	pyoki / -pyo	mpika	tako	tali	kemu (tsyao)
sell; sale; market	obscure; blur; mix- up	tiger	disease; be ill; be sick	pitch; sap; resin	be content; satisfied	temple; shrine	experience; undergo
Ħ	ΪΞ	)E	កែ	ग्रि	îè	E	F
kipo	kinte	kimu	kihu	kitsi	kosi	kotsi / -tsi	kutle
aspire; hope; wish	invert; upside- down	duty; responsibility	weather; climate	texture; grain	formal; official	evidence; proof; prove	saltpeter; potassium nitrate
ä	E	โก้	15	ជ	iü	ប្រ	ñ
nkelo	nkohe (tyao)	mune	mutla (tlyo)	mu'e	nipo	simo	haki
hinder; obstruct	fossil resin; amber	chest; breast	absolute; unconditional	rhombus; diamond	compel; force	pit; abyss	true; real
Ei	m	iri	15	ļñ	ជែ	ij	1 1
hyotsi	tsaka (tsyo)	tsa'e	tsela	tsuki / ki-	tsuya	tlonku	ара
flint stone	house; home	across; through	philosophic theory	next; in order; sequence	main; primary	keel; water wheel	closed; shut
13	E	E	स्य	F			
atli / -tli	unya	ula / -la (tlyao)	yosu	yotsa (tyo)			
future	know; understand	any; indefinite; some~	moss; lichen	cheek; face			

## NTA

111	शा	in	M	m	M	lu	$\Pi$
pata (ntsa)	tenta (ntsu)	nkilo (ntse)	misa	muapa	naha	suta	hama
tile; brick	curtain; partition; screen	bright; resonant; distinct	road; path	set apart; appropriate	river; stream	reside; dwell; settle	defend; protect



yama mountain; hill

## MPO

evade

H	117	迢	凹	连	江	汇	川
paho	peta	pelo	pyona	tapo	tili	toka	toma
dock; pier; wharf	map; cartography	advance; improve	brittle; fragile	shoulder; branch	stain; sully; tarnish	tone; speech mode	deplete; exhaust
iñ	덤	īË	i!?	रम	识	日	凹
tomo	kanue	kumu / - mua	nkoyo	motsi	naye	huata (ntlo)	huesa
offer; supply; provide	canvas (sailing; painting)	include; inclusion	lamb; sheep	bag; pouch; sack	during; while	shelf; stair	company; firm
连	三	in	וֹאָ	Ξį	iH	M	ïE
tsalo	api	ahu	ilo	olo	ueha / -ue	yapo (ntsu)	yate
clear; transparent	unroll; unravel	dam; weir; dike	cave; cavern	patrol; make rounds	want; desire	build; erect; assemble	leave behind; abandon
凹	Ä	沅					
yana	yano (ntli)	yesi					
yellow	avoid; shun; evade	jade; emerald					

## NYA

Ë	H	ä	5	ゴ	旨	E	5
kana / -kan (t)	katsue (tye)	misu <mark>(tl)</mark>	nyoto	sato (tlye)	sahi / -si	homa (tya)	hyoka
lead; chief; leader	owner; master; host	copper	scribble; jot; write quickly	sense; perceive	color; shade	message; notify	attack; strike
ata (tlya) (be) name(d)							

## **TSUA**

F	E	E	2	2	2	5	三
tanua	tono (tuai)	kasu	kayo	kiyo / kyo	kutsu / - tsu (tlua)	muka	muana (tua)
discuss; talk	emote; feel; emotions	lend; borrow	lose; misplace	fast; rapid; quick	flesh; meat	facing; towards sb/st	ocean; sea
2	E	3	R	F	7	5	
hyome (tlue)	tsata (tue)	tsila	tlaye	ano	aso (tluai)	enko	
surface; topside	council; committee	lips; mouth	according to; based on	again; iteration; layer	grill; roast	tin; pewter	

## PAO

17.0							
นิเ	घा	Fi	ni	51	E	กร	<b>ប៊ុះ</b>
puha	tesue	kuta	nkihua	nkoha	manki	monto	muanya
lung	encourage; motivate; support	fence; wall	lengthy in duration	shake; shrug (body)	tungsten; wolfram	torso; trunk	gap; hole; ditch
नः	3:	Ëi	Ηi	N	กเ	三	या
muesa	niyo	nyema	nyolo	sanka	sela	huala	tsuta
institution; agency	be contained; content	century	ant; insect	delta [geography]	waterfall; cascade	important	backward; reverse
17?	37.	घा	äi				
tlolo	akya	aoya	etle				
cool / warm	awake	deep blue	prolong; defer; stall				
AKE							
117	n!	114	U	UE	ni	TE	Tü
poyo	topo	meli	hekua	huye	tsenka	tsiyo	aka
rich; abundant;	gate; door	bow	cliff;	deep;	orange	corridor;	move slightly;

orange

hallway

slightly;

drive

abundant;

wealthy

gate; door

rockface

profound

amue

absence; be absent

## ОНІ

El	मां	ni	मा	Ei	ūl	빈	鬥
taso	kolo	nkanu	nkasu	nkola	mala / - mpo	noma	saha
stable; steady; firm	notch; concave	short (in height or length)	intrude; to charge in	choose; decide	bad; unfavorable	thing; object	history; annals
Hi	äi	ni 1	記	빉	21	17	Ë
tsiua	tlohi	tloua	apua	atsu	aye / -ye	umpa	uma
lake; pond	salmon; trout	dew (moisture on plants)	song; sing	thick; solid	past	hinge; pivot; fulcrum	horse; equine



uatsi fish; piscine

# Kapu (box)

1112

18

凯	
poto (n-u)	









moya







photo; image

pyota cube; block; be square

kunye kaha (n-i) paper;

moon; lunar

(n-e) write; symbol mula / -mu begin; start

natsa paint; draw

santo trunk;

chest





page









sama (n-o) sun; solar; (star)

sanyo era (19

senu (sen-) hair; fur years)

huatso midnight

atsa (X) disc; wheel omya (n-a)

carve

engrave;

yomua morning; dawn

yona

book; scroll







darkness



yotso

noon; midday

# Kama (city)

F

## NTA

豆	<b>!E</b>	E	目	旦	田	IE	汪
tona	kanti	kina	hika	tsenye	tsikue	tleyo	uanyo
tuna; flounder	deceive; cheat	mammal	wait; pause; halt	sediment; deposit (geology)	habit; custom; tradition	province; territory	bay; gulf
iE							

## NYA

**yakue** sapphire

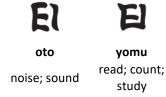
可	ü	m	过	回	训	iii	I
pa'u	ponka	tenyo	kitsa	kopi	kuhua	moli	nota
tree bark; outer covering	appreciate; enjoy	paradise	dark (ly/ness)	bridge; crosspiece	meet (ing)	forest; trees	be horizontal; lie
凤	m	m	li	W	iii		
noki	notli	heua	hono	umo	uahya		
vertical; erect; upright	inn; tavern; hotel	air; sky; oxygen	port; harbor	unity; unify	tribe; ethnicity		

## **TSUA**

ΠŢ	M	M	m	Ш	凹	丌	m
panta	patli	poti	koma	nkolo	masa	nesa	tsonka
marsh; swamp; wetland	birch; poplar	goat; ram	conceal; hide away	are/acre (area)	deer; elk; cervidae	system; organization	public; common
四	W	m	可				
tsusu	empi	itlo	uampu				
focus; concentrate	chalk; limestone; lye	be equal; same	cone; awl; bore				

## **AKE**

Ei	Ei	E	E	E	EI	31	æ
pyolo	mpina	mpuku	toua	kyanko	nokye	seye	hyoko
business; office	euphony	complex; complicated	arbitrate; mediate	kohl; grey mineral	agriculture; cultivate	dowry; trousseau	bulb; bulbous; bloated



## Ki (self)



soku

attribute

tsaku

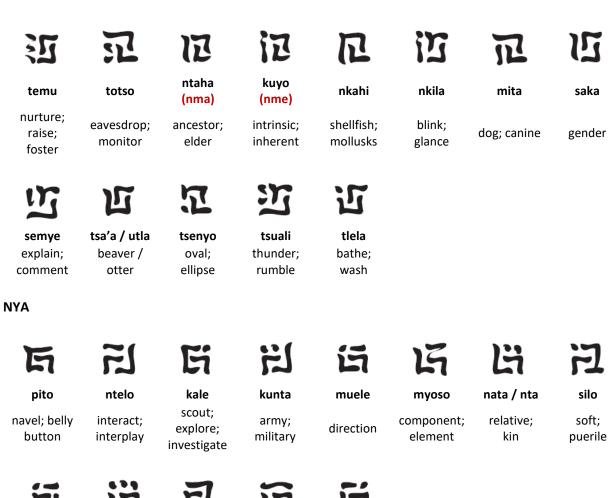
idea;

thought

tlaka / -ta

man; male

## **NTA**



omo

think;

consider;

ponder

yote

help; assist

## **TSUA**

に	K	川	Ä	H	四	归	Ä
toue	ketsa / -ke	kume / - me	maka	hatsa	amye / - mpe	inti	ike
mist; smoke; vapour	doubt; suspicion	cancel; undo	music; tune	luck; fate	be alone; sole	self- restraint; discipline	gene; quality
덛	日	덦	日				
oma	ume	иаруа	yoha / -yo				
roar; cry; howl	artificial; man- made	insult; ridicule	have; posses				
AKE							

## Α

V	可	li	II	23	可	Ti	I.
puaka	tanka	tonye	ntaka	kata	kyosa	nyaue	sana
forehead; skull	eagle; falcon; hawk	automatic; involuntary	energy; fortitude	essence; nature	copulate; fornicate	exterior; outside	health; hygiene
II:	四	Zi	1.				
tsanto	inka	uku	uenyo				
meditation	still; calm	number; count	decade; period				

# Kutsa (spoon)

**LY** 

15

ana

brain; head

uepya

age (361

years)

NTA

识	记	1	12	15	12	压	当
penko	pyasa	pyotsi	toki	nkota	nkosa	manyo	nasa
study intensively	custom; convention	tail/caudal fin/feathers	convex; bulge	maple; sycamore	late summer (serotinal)	size; height	birth; born
当	丐	114	话	is	占	15	L
natsu	nyahe	sapo	sepu	hyanta	tsampu	tsatle	ame
summer	by means of; via	light; easy; soft	mill (stone)	grandparent	iodine	crane; egret	axe; hatchet

## NYA

ñ	Si	मंत्र	N	沼	12	A	प्र
pinya	piyo	pyoho	tipua	toli	ntopa	kapa	kema
diligence; hard work	bee; wasp	flea; mite; tick	fall; drop	entice; tempt	break through; puncture	enough; sufficient	work; labor; task
A	भं	ñ	ä	N	黑	卐	मं
kupa	kutsa	ku'u	kuaha / -ua	maku	milo	moku	nyatsa
die; be dead; death	spoon; ladle	cereal; grain	study; science; - ology	sleep; rest	bubble; foam; suds	pillow; rest one's head	expose; reveal
72	和	ř	v	别			
seka	tseme	ueto	yaua	yetsa			
dry; sharp	drawer; tier; tray	stellar system; galaxy	answer; reply	cry; weep; tear			

## **TSUA**

भः	괮	स	N	匹	刑	깶	ររ
pila crush; grind	pumpa be lazy; idle	tepye beat; knead; pulse	<b>tela</b> cut; slice; chop	<b>nta'i</b> baby; infant	<b>ntela</b> sever; separate	kuha cook; prepare food	kyanki refrain; abstain; avert
ቪ	为	건	判	끧	ম	יוני	K
nkampo segment; partition	mase dance; flicker	matsua hint of flavor; taste	minta specimen; sample	mosi whetstone; millstone	neme assume responsibility	notsa horseback; mounted	sane sheath; encase
갦	Ħ.	证	TE	भंं	श	Ti-	
sitsa heat; be hot	holo dig; excavate; scoop out	tsinka be at a negative angle	tsula celebration; festival	tlomya crawl; creep	tloho lag; retrogress	empa run; flee	
AKE							
न्त	凹	त्र	리	Hi	瓦	नि	坛
tatsu glyph; logogram	<b>topu</b> jump; bounce	kosa scythe; sickle; mow	ma'e (in) front; before	natla self- important; arrogant	nisa compare; contrast; ratio	nyotlo nut; seed; embryo	sikyo womb; uterus
빔	ना	71	57	ភូ	न्य		

tsuna

join;

connect

eki

post horse;

relay

station

uente

bismuth

hoku

bulge;

knob;

protrude

sina

status;

station

huke

chaff; grain

husk

# Kuua (region)



yeno

complete;

full

yoma

day (light)

## NTA

NTA							
回	!E	田	ij.	回	E	E	ie
puta	take	timu	keto	ketla	kuelo	masu	myena
be wrong; false	scenery; landscape	east	migrate; mobile; portable	red	gorge; strait; ravine	countryside	extent; surface
回	ES	回	IE	Ë.	辺	河	江
nikua	nosa	sala / -sa	sika	soyo	tse'e / -tse	utse	ule
wind; coil; wrap	subject; theme; topic	room; chamber	sip; savor	be abstract; abstraction	seem; appear as	exclude; ignore	affect; act on
NYA							
H	回	回	可	<b>T</b>	回	ü	ন
poye	pyo'o	tapa	tani	taha / -ha	kipa	kinya	kompa
ally; alliance	multiple; square	roof; lid; top	valley; ravine; gulley	big; large; grand	gums; inner mouth	silver; coins	fungi; mold
Ħ	U	A	阎	运	回	回	回
nkomo	mina	munua	nomye	hate	hasa	hasua	yekua
storehouse; warehouse	south	culture; civilization	product; commodity	develop; make use of	private; personal	edge; brink; margin	cabinet; wardrobe
***	<b>C</b> :						

## **TSUA**

ল	E	<b>戸</b>	M	T.	सि	回	U
pasi	puama [pama]	tipu	tina	kama / -ku	kali	kaya / -ku	kenta
bronze; brass	dusk; evening	seabed; lowest part	bend; fold; twist	city; town	slope; incline	earth; world	capital (city)
V	ü	回	回	9	[I]	গ্ৰ	回
kita	kuma	kyalo	nahe	niha / -ni	siue	hano	hanya
north	bear; ursine	gem; jewel	inside; within	good; pleasant; regular	leaf; herb; petal	pitch a camp	nation; state; country
瓦	点						
tlana / ko / -tlo	anto						
person; individual	oath; swear						

## **AKE**

E	Ei	I	E:	IL	K	e	Ei
peha	kapya	kohe	kuua	kyohu / - hu	mali	moyo	muhi
penetrate; puncture	receive; accept	plateau; bluff; mesa	region; district	be drastic; extreme; aggressive	fictitious; fake; virtual	heart; core	environment; ecology
H	<b>I</b> !	E!	回	E	El		
nisi	nyeli (elila)	salo	huepu	tlipi	yola		
west	pink; rose	press; push down	apex; summit	tie; bind; fasten	rely/depend on	t	

## Senu (hair)



## MYO

E	
kusa	

kuenu pinch; bird (that clutch; flies) wring



hyeko balance; equilibrium



tsukya lap; cycle; complete



yono drama; play; theater

## **NTA**



kimyo strange; unusual



nkeni visit; guest; patronize



tlika family; kin



enta record; note



usa stripe; streak

tsuli



uali list; chart; diagram



yomo right (side)

## **MPO**



fish scales



arise; form; appear

kunya



seta be flat; smooth;

silk



heya / -he (nhi) need;



currant; require gooseberry



atsi / tsi-(nho)

angle;

corner

yoka

deck; floor; story

## NYA



**pana** rain



**keue** permanent; constant



kisua root of plant



metle knuckle; joint



**nyase** eyelashes

ūi

sitla meadow; sod ili

tsompa worship; pray tlihya beard;

moustache

Mi

**ito** tree; wood

## **TSUA**

ĨĨĨ	$\overline{u}$	)TT	BI	ili	$\widetilde{u}_{i}$	<b>W</b> i	크
patla	mitse	nato	soho	suala	tseko	tloha	esa
field; pasture	disappear; vanish	straight; direct	crops; harvest	be heavy; weighty	charcoal; coal; carbon	grass; weeds	cushion; mat; pad

in	M	<i>Li</i> s	$\widetilde{\mathfrak{M}}$		
okyo	ua'e	ueye	yasue		
clearing; glade	above; over	situated; lie; positioned	cheap; low cost		

#### PAO

ĭī!	M	罚	M	M
puana	mpahe	heme	tsonta	tlamo
ghost; deity	integrate; synthesize	tremble; shiver; vibrate	adolescent	poplar; willow tree
AKE				
21	<b>%</b> )	<b>Z</b> }		=

kiso

base;

foundation

# ОНІ

pyonka

be parallel

mpiku

glue; gum;

rubber

ЭНІ				
됬	$\bar{n}$	Mi	Z	回
petsa	kamya	kotso	uahi	yali
delicate; tender	stun; shock; bewilder	earthen- ware	arbitrary; random	forgive; pardon

mahe

between;

among

noto

compassion;

kindness

yoso

left (side)

anu

hear; ear

# Hamo (hook)

1777

### MYO

ि	ie	it;	1.E	ह्य	15	E	ां इ
pasua	pese	pusu	kalo	kihyo	kusu	kyo'a	neko
expand; swell; spread	gland; small organ	shake; shock; vibrate	replace; substitute	commerce; trade	push [away]; press	be quiet; silence	cat; feline
धि	Fi	គ					
anya (Iyo)	uale	yetsu					
see; look; watch; eye	raw/source material	factual; fact; real					

#### NTA

14	isi	श्र	切	!U	17	15	14
mpeli	tatsi (nse)	ntahi (nlu)	muta	myeka	myonta / - myo (nna)	sahye	hakyo / -kyo (nle)
wilderness; uncultivated; wild	stand; set up; establish	child; offspring	back; spine	neck; voice	allow; permit	stand side by side	school; college
श	!Ti	iu	到	177	W	in	श
hamo (nsu)	tsu'u	tlahu	uenta / ue-	uesi	yaka (nna)	yoti	anye
hook; barb; check mark	cork; plug	reach; attain	aunt/uncle	function; role	leg; limb; appendage	play; game; sport	lower back, waist
Mi	EU						
ahi / -hi	aya						

### MPO

(nsa)

small; little

(nnu)

beauty

正	运	댔	17	ir	正	12	压
peti	petso	pinto	kapyo	ki'i	kupe	nkaho	maua / - hua (nno)
flightless bird	abdomen; belly	swallow whole	gull; seagull	shriek; chirp	arthropod; tick	stem; stalk	flower; plant
ភោ	TE.	些	)E	氘	15	Ħ	闭
munta	seua (nso)	tsoye	tlipu	emya	ipye	ika (nli)	umye (nlo)
change; transform	care for; nurse	sit with feet hanging	hang; be suspended	happen; occur	tusk; horn; fang	age; generation	electric [al/ity]

### NYA

ij	5	ä	运	F	Ħ	댇	F
kupye /-pye <mark>(lye)</mark>	metla	me'a (-I)	muata	muate	naka / -na ( <mark>lya)</mark>	noya	sata (sya)
much; exceed; excessive	flute; whistle	neat; even; level	manners; politeness	early; prior	woman; female	happiness; be happy	govern; administer
三	F	百	Ë				
tsanko	tsiya	tsumpa	onyo (-s)				
ape; primate	freedom; liberty	buy; purchase	learn; study				
TSUA							
江	与	5	E	E	E	丑	7
pyasu	mpana	tetsa	teyo	kato	kala / -tla	kaue	kito (lue)
trajectory; mean; diameter	wide; broad	implicate; involve	call on; find; look for [sb]	two story building	language; talk; speak; say	chin; jaw	subsist; survive
넒	금	与	크	7	긨	E	김
kyoma	kyohi	matse	muku (lua)	myana	naho (luai)	nyasa	sima
barren place; desert	refuse; reject	mix; blend	knife; blade; sword	variation; vary	rule; order; grammar	gratitude; thank	seat; chair; sit
ä	三	片	回	回			
hola cloth; towel	<b>eua</b> fin [of a fish]	<b>ima</b> now; yet	<b>itsa</b> love; affection	uaka ox; bull; bovine			

#### PAO



tosa

waste; squander ग्रा

katsua slip; slide; slippery गः

**kihua** clear; fine weather El

namya belong; be in proper place त्र

nyete
open; start;
turn on

回

**hiki** brief; soon

诏

tseta

intersect;

到

tlapa

musical horn



yamu trapezium;

trapezoid

ना

yetso boar; (wild) hog

#### AKE

71.	74	$\Pi!$	ता	U	17	Tü	凹
puku / -pu	puani	tahe	ntopi	mela	motso	sayo	sinto
clothing; attire	beach; coast; shore	below; under	cliché; stereotype	endure; last	wave; undulation	month (calendar)	be deep; depth
ि	阳	M	TE	17	17	M	Tis
sinka	sotla	suha	hamu	honu	tlatsa	tletsa	tlipya
lion; beast	foot; heel	mouth; tongue	ash; bit by bit	turtle; tortoise	fire; flame	column; beam	pound (mass)
Li.	凹	TT.	Πί	N.	n	TE	
tliya	uaso	ya'a	youa	inya	opua / - pua	umpu / - mpu (lu)	
effect; efficacy	cup; jug; vessel	medicine; drug; cure	weak; feeble	hunger; desirous of food	finish; complete; end	shape; form	

#### ОНІ

Ni	71	받	出	븨	ग्रा	FI	31
penua	tamya	ntahue	ntahya	katlo	keua	keya	kiti
continent; island	copy; duplicate	nibbling	grandchild	take risk; hazard	abandon; discard	gram; ounce (mass)	accelerate; expedite
끈	না	r;	ন্য	<b>I</b> I	Ei	ili	E)
niua	soko	huta	tlali	tlenyo	tlonki	eti	omyo
garden; yard	rescue; pluck from danger	bury; interred	defeat; overpower	millennium	solvent; solution	case; instance	perspective; view; opinion
_	pluck from	-	•	millennium	-	•	view;
_	pluck from danger	-	•	millennium	-	•	view;

# Huka (slash)



NTA

112	ii	राइ	is	IF	IE	শ্ৰ	ile
mpunu	toku	kanka	kuali	kyoli	netsa	tsanta	tseku
bent; bend	resolve; solve; settle	corn; maize	drill; bore; dig into	interval; length	advantage	usurp; overstep	early spring (prevernal)
ध	E	ដា	闰	शि			
tleno	enka	uaho	yape	yotli			
log; timber; plank	narrow; thin	miss; feel absence	exercise	gourd; melon; squash			
NYA							
ä	zi	$\Xi$	E	辺	ä	运	Wind the second
panya	pela	takue	tano	tisi	tokue	koye	kutla
rodent [rat; hamster, etc]	cancel; ~lation	demand; request	describe; depict	bulk; volume	puncture; pierce	be deliberate; on purpose	be lumpy; rock pile
S	巡	回	巨	F	区	2	
kyaho	kyompi	noka	tsane	akai / -kai	oya (nmo)	uetsa	
practice; train; drill	fine dust; powder	beak; mouth	pavilion; gazebo	deep red	black	balance; offset	

### **TSUA**

出	ां ज	出	ä	回	ä	可	回
puna	tapua	tana	tele	tipa	tonta	toho / -ho	ntaku
dirt; soil	rectangle; square-like	fight; battle	shave; scrape; peel	fit; suit; align	permafrost; tundra	assert; claim	sibling
띺	H	iii	डिं	当	当	Ei	当
kahu	kinyo	kompo	kota	kuasi	muhe	myaku	nala
furniture	intervene; involve	seaweed	details; particulars	ore; mineral	be sad; grief	heartbeat; pulse	illuminate; light
100	E.	끧	E	沤	M	Ä	三
neku	nopi	senko	sonto	hani	hyeka	tsulo	ampu
winter (hibernal)	pile; stack	fleece; wool; woolen	quartz; topaz	range; scope	sand; beach	row; line; series	nose; smell
河	ä	E	N				
<b>opya</b> symptom; indication	<b>yatsi</b> bite; chew; tooth	yeto authority; power	yeku circulate; distribute				

#### AKE

到	N.	11	II	हिं	N	Fi	国
tapya	teki	tipe	tiha / ti-	tomi	kanke	kanu	kaye
follow; accompany	enemy; combatant	be counterfeit; fake; forge	multiply (math.); multiplication multi-	trait; ; feature	rigid; stiff	guitar; violin	until; up to
ना	II	国	भा	E	e	हा	K
kiha	kihya	koto	komo	kono (nmi)	kotle	kuanu	kyehu
tall; long	source; origin	drum beat; rhythm	barn; stall; pen	gray; stone	pine/fir tree	bush; shrub	leisure; take a break
स	K	N	T	El	出	हि	EI
kyonko	kyoso	mano	matsu	meta	niki	nyahi	suma
flavor; spice; season	compete; competition; match	fowl; poultry; chicken	victory; win; triumph	meter (length)	persist in; insist on	white; snow	window; portal
हि	शि	Li,	lei	N	E		
hiku	tsaya / -tsa	tsitli	uenti	yema	etsa		
eaves; ledge or brim	damn; cursed	farm; ranch	fade; wither; wilt	both; each	degree; rate		

# Tsule (thread)

幺卐

NTA

14	阴	भ्रं	兴	京	K	141	14
pakyo	punka	mpiko	tika (nhu)	ntaua	ntaue	ntaya (nha)	kapo
storm; violent event	fruit (tree)	condor; vulture	cane; rattan; vine	derogatory; negative	cousin	spouse; partner	relationship; connection
学	is	当	!5	M	H	H	îH
keho	kueta	nketa	mahi	saua	sila	hipa	hinto
alarm; alert	spring (vernal)	turquoise	needle [sewing]; thorn	damp; wet; humid	artery; vein	infiltrate; sneak into	rate; frequency
洪	냵	饼	M	14	H	F	
hyepo	tsamo	tlale (nhe)	tlo'o	yata	yenka	yone	
tune; calibrate	reef; coral; shoal	tulip; lilac	elephant	greet / farewell	pitch; tone	sludge; ooze; slime	

### NYA

H	彩	K	紀	37	宏	ij	ii.
<b>pusa</b> flutter; flap	<b>taki</b> coat; jacket;	ketsu unruly;	kohue regret; repent;	<b>kuanka</b> irrigate; wash with	kyohua exchange; swap;	miya core; pit;	nampu fountain;
	robe	rude	remorse	water	trade	stone	spring
71	I;	5%	7	37	岩	7%	15.
haua	heta	tsate	tsahe	tsunka	tlila	ahya	a'i
believe; trust	fell; chop down	knot; entangle	in exchange for	bug; insect	purple; violet	potato; yam	worm; insect
7	Ĭ	K					
uatse (-h)	yatsa	yoko					
correlate; correspond	bridle; reins; harness	swim; wade					

### **TSUA**

当	武	出	بتو	377	75	3	Fi.
<b>pyete</b> be slimy; viscous	tenka fix; repair; mend	kuetso stroll; amble	<b>nkina</b> steep incline	<b>male</b> display; exhibit	natsi poem; poetry	naua rope; tie; bind	satsa weave; knit
K	F.	K	น์	भ्र	当	当	Ħ.
hitsua	hoko	tsato	tseyo	tsita	tsule	ela / -la	impi
righteous; just	trench; moat	chaos; be messy	loose; loosen; relax	remove; take away; withdraw	thread; wire	become; change into	ginger (fruit; tree; color)
45	匹	ž.					
<b>otla</b> bird; avian	<b>ueko</b> barter; bargain	<b>uekya</b> squirm; wiggle					

AKE

51	भ्र	罚	캗	Hi	泺	र्भा	भा
<b>pato</b> duck	payo / - pyao crooked; bent; warped	tonya collapse; disintegrate	konu ambition; volunteer	netsi screw; helix; spiral	neya / -ne should; ought; suggest	noko / - nko continue; progress	numu style; pattern
띰	45	阳	5!	<b>५</b> ६	Hi	५१	拦
sahya	sueho	tsaua	tsemua	tsene	tsisi	tlaya / -ya	tlonye
correct; proper	surf; crashing waves	complexion; appearance	candle; wax	lightning; thunder	embroidery	marry; in- law	flexible; pragmatic
सा	뷗	H					
aki	еруе	yonka					
autumn	scrape; scratch	lava; magma					

# Uaso (jug)



pula cauldron; kettle; pot	mpeka frog; toad	tanu plate; dish	kapu basket; box	kapua barrel; cask; tun	kati old; ancient	kope grease; oil; baste	kote divulge; leak out
但	16	131	Si	362	KI	砬	后
kuena	nkapa	masi	matla	moka	<b>mona</b> safe;	nekua	saya
staple crop/food	alcohol; liquor	door/window frame	stew; soup; broth	flour; wheat	secure; safety	cupboard; pantry	peace; stillness
污	四	is	13!	5!	应	131	衫
sena	soye	suku / -su	haku	hyali	hyota / - hyo	tsala	tsa'i
liter (volume)	list; index	shop; market	vomit; regurgitate	dairy; milk	juice; lotion; extract	paste; sauce	tea
123	113	£	is	16	讨	312	Di
tseua	tseue	tsupu	tlaku	ampe	asua	ale	ina
longevity; lifespan	nail; spike; screw	mead [honey wine]	enmesh; wrap around	arrange	skin; hide; fur	oats; wheat; barley	food; eat
5	113	13:	1112				
<b>inu</b> drink;	<b>inua</b> diet; food	uapo	yempa				
beverage	& drink	basin; sink	table; desk				

# Yato (hand)

手刀

NTA

可	II	H	117	辺	加	ਸ਼	<b>3</b>
peya / -pe	tanko (ntu)	tepe	tiku	kanyo (ka)	kena	kitla	kuhi
piece; part; bit	group; team	conceal; cover	pick-up; withdrawal	question; ask; question marker	circle; sphere	create; invent	grasp; clench; hold
ie.	M	回	N	स्य	江	17	111
mayo / - nyo	meha	mitla	nyehue	nyoma (ntlu)	hita	tsame	tlahi
tool; instrument; device	hit; strike; slap	arrow; dart	cloudy; overcast	rice	throw; cast	gather; collect	convenient; be easy
id	17	;I	ĬΠ	n	ill	扪	in
ati (ntle)	ama / -ma (ntla)	ane	ete	ehya	uta	ualo	uayo
normal; plain	time; moment	care for; look after	writing utensil	complete; whole	deliver; submit	bring; fetch; get	set aside; separate

初

**ya'e** near; close

#### NYA

H	ü	6	12	日	出	립	当
poli	pyela	mpila	mpoho (ts)	tala	kuate	maya	nalo
force; violence	share; together	ball; sphere	gift; offer; present	come; arrive; return	twin	water; fluid	laugh; smile
百	日	E	Ë	ũ	凹	is	H
nohya	hana	hoso	tseka	amo	asa	emye	onta / o-
bundle; pack; wrap	emit; give off; send out	hold; keep	pull; draw near	carry	alive; live	thumb; big toe; inch	parent; adult
田	ä	运	Ħ	F	ü	台	司
oli / -li	ute	uano	uasi	ueyo / -ue (tsya)	yaue	yeta (tsye)	yelo
each; every; apiece	arm	other thing; st else	take; get; acquire	intent; intention	use; employ	give; transfer	ice; freeze; hail

yoke load; lading

### **TSUA**

Ħ	H	江	E	ij	F	Ħ	Ħ
pyola	tatli / tli-	teya / -te	tini	tinua	tokya	kesa	nkasa / nka
revolve; rotate	pack; group	propose; request	spiral; whirlpool	form; sturdy	inspect; examine	calculate; compute	measure (ment)
H	던	E	R	汩	H	旦	日
mana	mesa	mohe	natsua	nime	tsayo	tsele	tsuhu
strength; force	example; model	put; place; install	release; let go	appoint; designate	vehicle; cart; carriage	iron; steel	candy; dessert; sweets
日	豆	曰	도				
tlakua	yato	asi	ulo				
cricket; slug	hand; palm	salt	crop rotation				

#### AKE

ध	IJi	TE	1!	Uś	回	D?	ui
pali	pomo	tatlo	tila	ketle	kuli	kuya (tu)	kuye
be saved; spared	handle; knob	regain; get back	finger; toe; point	chain; linked	spirit; soul; vigor	green; foliage	catch; grab
U!	U	R	<b>TI</b>	四	U	Li:	II;
mato	nkiye	nila (tlu)	nopa	nuti	saye	sehe	sota
touch; feel; access	vegetable	blue	pull; stretch (out)	well; mineshaft; pit	along (a line/path)	cargo; freight	scatter; sow
H	पिः	可	Ti.	<b>Ti</b>	Ti	D!	
hapyo	tsiue	tsoma	tlepa	uamya	anyo	umua	
catch; seize; capture	elbow	tobacco	teach; educate; train	schedule; agenda	year (365 days)	ache; pain	

# Yaka (leg)

儿片

NTA

凹	ili	in	İŢ	17	स्य	117	114
pala / -pa	pota	pyeta	tatso	tima	titsua	ntome	keha
can (be); able; potential	flee; run away	egg; ovum	wander; roam; drift	bleed; blood	swagger; wide stance	preserve; conserve	body; anatomy
in	ill	IJ	N	江	[I]	ili	n
munya	sapa	sahe	sekua	hatla	henyo	tsompi	tlako
linger; loiter	boot; shoe	opposite; across	trace; track; trail	living thing (plant/animal)	resist; oppose	advance; onward	dither; hesitate
an	m	红	च्य	ili	เก		
tlola	tlo'e	uasa	uala	enyo	upya / -pya		
intersperse; wedge	zeitgeist; tide of thought	skill; trade; craft	verily; truly; indeed	exhibition; to perform	attempt; try		

### NYA

E	Ë	E	ï.	运	臣	F.	Ä
pako	pamye	penka	punu	pueto	tese	topa	tolo
fresh; new	whip; lash; flog	impulse; impetus	minute; moment	be ready/willing do sth	endure; suffer	bed; mattress	path; route
H	Ë	出	F	#	肾	Ä	E
nekya	soto	haya / -hya	tsapa	tsimpa	tsitla	tsopi	emyo
retaliate; revenge	speed; velocity	animal; beast	effort; endeavor; struggle	lame; limp; hobble	adorn; decorate	retreat; withdraw; recede	walk awkwardly
:::	H						
uani	ueso						
alligator; crocodile	bone; skeleton						

### **TSUA**

E	邑	H	33	E	E	3	E
mpasu make do; get by	mpale overturn; capsize; flip	tinta act; play role of ~	ka'u sit cross- legged	<b>keta</b> behave; conduct	koho float; drift	masue be nimble; agile	<b>moko</b> lizard
出	33	F	H	K	Z	H	더
mustu conflict; friction	nyemi cape; headland	nyopa poor; impoverished	nyoso squat; crouch	haka pants; trousers	homu stage; platform	huato move about; to and fro	hueko friend; companion
Ħ	77.	Fi	ij	E	13	己	7
tsipa	tsipue / - tsue	tsoka	tsute	tsuama	tlaha	tlahe	tlimu
ephemeral; temporary	late; delayed	bump; collide with; strike	slip and fall; stumble	sandwich; wrap	leave; depart	confluence; convergence	blanket; rug
5	E	E	Fi	E	日	77	13
uata intestine; gut; bowel	uene ship; vessel; boat	<b>yake</b> pursue; chase	yaso / -sue prepare; ready	<b>yasu</b> buffalo; bison	yetsi chair; stool	yoni ethic; moral; virtue	onto trample; stamp; tread

#### AKE

li	ញ	n	17	ni	ग्रह	Lis	ni
pena	mpaka	mpekue	teme	te'e	teua	tinto	tihe
go about; busy oneself	border; line	go off track	impress; make an impression	kick; trample; tread on	undertake; assume	extend; reach	be dense; viscous
11!	n	ne	in!	it	Ui	m	171
kasa	konto	konka	nkotsi	manka	muaka	nama	nya'e (nya)
bamboo	flow; current	illegitimate	march; parade	cold; cool	dump; pour (out)	mature; grow	for; in order (to)
n	Lii	धा	US	172	Li!	in	धाः
hisu	hyotso	tseye	tsomo	tsola	tlima	tloma	anka
department; division	elasticity; spring	excited	walk on tiptoe	fox; vulpes	plow; till soil	feather; plumage	hip; pelvis
凹	173	पा	યાં	Lis	订	धिः	धा
anku / -nku	oku	ola	utsa	uye	uaya	uetla	yala / -la
mutual; reciprocate	owl	gold	serve; service	now and then; occasionally	ascend; climb	upright drum	go; walk

# Yomi (bow)

naso

dragon;

lizard

suele

lotus;

water lily



#### **NTA**

当	15	冱	記	尼	污	记	記	
pisa	tasa	kinti	kisa	koli	matso	nante	satsi	
atrocity; savagery	hunt; seek	squirrel	tear; rip; split	tail; extremity	brush stroke; pen mark	seldom; rare	recruit; cast; enlist	
泛	15	E	i5	冱	!5	记	15	
sikue	si'i	tlanka	tlina	anue	aha	otso	yomi	
pig; pork; swine	crow; raven	rank; grade; level	stop; halt; cease	instruct; tell; command	melody; tune	wolf; lupine	bow (archery)	
NYA								
เท	利	जि	ដាំ	Lii	ក្ន	Gi	n	
peua	pinta	tile	katla	kinua	ku'a	nkayo	nkoma	
concede; surrender	tactful; discreet	circumst- ances; situation	launch; eject	metallurgy; metal working	subdue; to overthrow	week (7 days)	raise; lift; hoist	
~>-		1				-	_	

tsoya / -tso

middle;

half

tlatso

last; final

anta

breathe;

inhale

ila

fly; sail

uane

trap; snare

yasa

air; wind

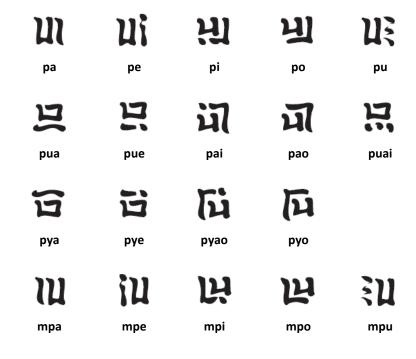
#### **TSUA**

มีที่	m	汩	凹	멉	Di.	भा	मा
paha	putsi	kinta	kohu	kupue	nkepa	malo	muaye
evil; coarse	ambush; waylay	be rampant; run wild	fog; mist; steam	curve; curved line	charge; sudden attack	brown	soot; carbon black
历	הי	LH	瓦	m	N	भा	in
muya / - mya	myeta / mye-	neto	niya	nomya	nyepa	tlitsi	ala
do; make; cause	season	saw; cut with ~	goal; reason	action; activity	cloud; mist	reasoning	wing (feathered appendage)
AKE							
51	己	5?	51	2	51	य	53
punta	mpula	tanya	tonke	tohu	kamo	kuatla	kuetla
betray; rebel	lamp; lantern	damage; break	trespass	bean; pea	entail; lead to; result in	reptile; snake	thresh; flail; thrash
라	51	51	라	5!	7	51	53
kyali	kyepe	kyosu	moha	hyonka	tsima	esue	yoli
spear; lance	diagonal; zigzag	raid; invade	far; distant	miss; fail (to hit)	hour; clock	fail; lose	section; stage; phase

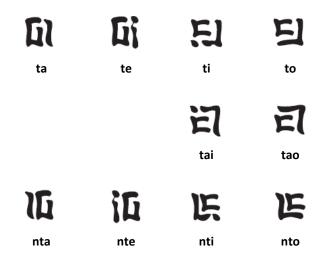
# **Syllables**

The handwritten syllables for reference.

PΑ



TΑ



KA



NA



TSA

M	Mi	Ü	111	NE	
tsa	tse	tsi	tso	tsu	
H	Ä	iil	n	17	
tsua	tsue	tsai	tsao	tsuai	

TLA



LA



Α



#### References

Contributors to Wikimedia projects. "Kyōiku Kanji." Wikipedia, 1 Jan. 2023, en.wikipedia.org/wiki/Kyōiku\_kanji.

Johan Björkstén. Learn to Write Chinese Characters. New Haven, Yale University Press, 1994.

Joon Geem. Chinese Character Cognates. Seoul, Korea, Totem Media, 2017.

María Longhena, et al. Maya Script: A Civilization and Its Writing. New York; London, Abbeville, 2006.

Maya Hieroglyph Dictionary - Peter Mathews and Péter Bíró. research.famsi.org/mdp/mdp\_index.php.

Peterson, David. The Kamakawi Writing System. dedalvs.com/kamakawi/orthography.html.

Sakade, Florence. A Guide to Reading & Writing Japanese: The 1,850 Basic Characters and the Kana Syllabaries. North Clarendon, Vt, Tuttle Pub, 2002.

Sampson, Geoffrey. Writing Systems: A Linguistic Introduction. Amsterdam, Netherlands, Amsterdam UP, 1985.

Schele, Linda. Maya Glyphs: The Verbs. Univ Of Texas Press, 2014.

Sylvanus Griswold Morley. *An Introduction to the Study of the Maya Hieroglyphs*. New York, Dover Publications, 1975.

Wallis, A. Egyptian Language: Lessons in Egyptian Hieroglyphics. New York, Barnes & Noble, 1993.