

mini-language documentation

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Rationale

Goals: high digital compression, easy learning, small grammar.

Email: phun@pm.me

Works: github.com/phunanon/conlangs

Community: reddit.com/r/conlangs

Dedicated to: Mikhailah Yap Rañada



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Phonology & Orthography

Latin Vowels

Latin Consonants

#	Ch	IPA	#	Ch	IPA	#	Ch	
0	iі	/i/	8	ii í	/í/	0	р	
1	jj	/1/	9	jj ì	/Í/	1	b	
2	ее	/ε/	Α	ee é	/έ/	2	t	
3	аа	/a/	В	aa á	/á/	3	d	
4	qq	/a/	С	qq ò	/à/	4	k	
5	0 0	/0/	D	00 Ó	/ó/	5	g	
6	u u	/u/	Е	uu ú	/ú/	6	m	,
7	h h	/ə/	F	hh ù	/á/	7	n	

#	Ch	IPA	#	Ch	IPA
0	р	/p/	8	f	/f/
1	b	/b/	9	V	/v/
2	t	/t/	Α	У	/θ/
3	d	/d/	В	S	/s/
4	k	/k/	С	Z	/z/
5	g	/g/	D	С	/ʃ/
6	m	/m/	Е		/\/
7	n	/n/	F	W	/w/

Native Script

Loans

Foreign words go through phonetic & morphological conversion.

Foreign	ki
у і І ү е	i
øœзæ	3
9 0 3	Э
9 9	а
алэо	а
8 0 m n	u

Foreign	ki
tstdct	t
m	m
ηηηΝ	n
В	b
j M [Y r L L L L R 1 1	1
d3 3	ſ
$q \mathbf{G} \times \chi \chi$	g
ф β ð 🕈 🖰	θ
۶	S
ħ f h	W

Syntax & Morphology

ki is made of 'sentences'.

Syntax

Sentences are made of three 'genres': <u>noun</u>, <u>verb</u>, <u>adjective</u>. Each is a 'word'. Each sentence has a fixed pattern:

... (noun) noun (adj) verb (adj) noun ...

- Genres in parenthesis are <u>optional</u>, opposed to <u>regular</u>, marked by morphology.
- Until <u>period</u> is reached, the pattern will repeat at the ...
- Optional genres extend while marked
- adj apply to the preceding word
- Multi- and Omni-Roots extend over mulitple words, and must fit each word into syntax;
 Special Lexicon interrupt normal syntax

Morphology

Words are made of 'bits', and correspond to a digital 8-bit byte. The first 4 bits is a consonant, the second 4 bits is a yowel.

- The first bit is 1 for optional, otherwise 0. The proceeding 7 bits constitute the 'root'
- Omni-Roots possess more complex morphology than Multi-Roots

Grammar

Semantics

*Genre Semantics

Whereby: (nouns) <u>Subject</u>, <u>Object</u>, <u>Pronoun</u>; (other) <u>Verb</u>, <u>Adjective</u>.

Pattern	Semantics & Transivity
SVOO	S does V to O's which do V to O's
SVPOVP	S does V to P who does V with O to P

- pronoun ambiguity
- or SVOOV[by]SVOVO..., or OV[by]SVOOVOO..., or SVOPV (e.g. I like her me listen).

Noun Semantics

Contiguous nouns are of their proceeding;

e.g. cat bird = cat of bird | bird's cat

This rule permeates all multi-nouns;

- e.g. person school = person of school | teacher
 - Default article is definite

Miscellaneous

*Possession

thing my

*Imperative

■ Made by stating the possible scenario (e.g. You clean the bath!).

Lexicon

Special Lexicon

■ Interrupt regular syntax

Numerics

 Adjacent numbers are treated as a list, by default as a set of separate options

Protocol 1

First root is "s_numeric0", proceeded by a byte: first bit ('overflow') signifies a proceeding numeric byte. All non-overflow bits constitute a N*7-bit binary value (N = amount of bytes).

Protocol 2

First root is "s_numeric1" for base10, "s_numericA" for base16, proceeded by a consonant: its value is the numeric's integer logarithm. The proceeding log(n) digits are composed of consonants & vowels by their numeric value.

Kinship

First root is "o_kinship", then move through relations from subject to kin.

Kinship	Link	С
male	link	Z
male	final	р
female	link	С
female	final	t
unknown	link	-
unknown	final	k

Kinship	٧
partner	i
sibling	j
parent	е
child	а
friend	0
neighbour	u
stranger	q

Proper Nouns

Mono-Roots

- Adhere to normal syntax
- Root value is hexidecimal, regular
- Orthography is Latin word
- Includes frequent grammar roots

R	O	Noun	Verb	Adjective			
Pr	Pronouns						
00	рi	me/I/my	am				
01	рj	you/your	are				
02	pe	they/them/their	is				
03	ра	me_you					
04	pq	me_them					
05	ро	you_them					
06	pu	we_them					
07	ph	each_other					
Ar	ticl	es					
98	рí	obj_near_me		a/an			
09	рì	obj_near_you		the			
0Α	рé	obj_near_us		this			
0B	рá	obj_far_us		that			
0C	рò	plu_near_me					
0D	рó	plu_near_you		plu_the			
0E	рú	plu_near_us		these			

	_						
R	0	Noun	Verb	Adjective			
0F	рù	plu_far_us		those			
De	Descriptors						
		'ho' includes all bei	ings ever anima	te			
•		clusion begs quest					
10	bi	what/who		what/who			
11	bj	which		which			
12	be	where		where			
13	ba	when		when			
14	bq	how		how			
15	bo	why		why			
16	bu	much/many		much/many			
17	bh	really		really/very			
Cc	nju	unctions & Evid	entials				
18	bí	and/also		evi_direct			
19	bì	xor		evi_non_vis			
1A	bé	or		evi_inferred			
1B	bá	nand		evi_speculated			
10	bò	nor		evi_hearsay			
Te	nse	es					
1D	bó	past	became	past			
1E	bú	present	becomes	present			
1F	bù	future	will_become	future			
20	ti	person		public			
_		meeting	meet	met			

R	O	Noun	Verb	Adjective
22	te			
23	ta			
24	tq			
25	to			
26	tu			
27	th			
28	tí			
29	tì			
2A	té			
2B	-			
2C				
2D	_			
_	tú			
_	tù			
30	di		know	known
31	dj	display/show/ vista	display/show	viewable
32	de	clock	watch	watched
_	da			
_	dq			
35				
36				
37	dh			
	dí	house		homely
	dì			
3A				
3B	dá			

R	0	Noun	Verb	Adjective
3C	dò			
3D	dó	school	teach	learned
3E	dú			
3F	dù			
40	ki	ki	say	
41	kj	female		
42	ke	male		
43	ka			
44	kq			
45	ko			
46				
47				
48				
49				
_	ké			
4B	-			
4C	-			
4D	-			
4E	kú			
_	kù			
50	-			
51				
52		sky		big
53	_			
54				
55	-			
56	gu			

R	0	Noun	Verb	Adjective
57	gh			
58	gí	heat		hot
59	gì	cold		cold
5A	gé			
	gá			
	gò			
	gó			
_	gú			
		water	drink	wet
		food/possession	eat	hungry
61	_	cooking	cook	cooked
-	me			
63	ma			
_	mq			
	mo			
-	mu			
_	mh			
	mí			
	mì			
	mé má			
_	mò			
_	mó			
	mú			
	mù			
Mι	ılti	-Roots		

R	0	Noun	Verb	Adjective				
70	ni	m_grammar						
71	nj	m_time						
72	ne	m_space						
73	na	m_travel						
74	nq	m_emotion						
75	no							
76	nu							
77	nh							
Sp	ec	ial & Omni- Roo	ots					
78	ní	s_numeric0						
79	nì	s_numeric1						
7A	né	s_numericA						
7B	ná	o_colour						
7C	nò	o_precise						
7D	nó	o_kinship						
Nι	Null & Period							
7E	nú	null						
7F	nù	period						

Grammar Roots

- Begins with root "m_grammar"
- Adhere to normal syntax
- Includes less frequent grammar roots
- Frequent grammar roots are in Mono-Roots

R	0	Noun	Verb	Adjective			
As	ре	cts					
90	pi	progressive/ imperfect	do	progressive/ imperfect/ exists/ happening			
01	рj	perfective	complete	perfective/ complete			
02	pe	prospective		prospective/ will_happen			
03	pa	inceptive/start	start_act	started_act			
04	pq	inchoative	start_be	started_be			
05	ро	cessative/end	stop_act/ stop_be	stopped_act/ stopped_be			
06	pu	habitual/habit		often			
07	ph	pausative/pause	pause	paused			
80	рí	resumptive/ resumption	resume	resumed			
Мо	Mood & Condition						
09	pì	condition		if			

R	0	Noun	Verb	Adjective
0Α	рé			would
0B	рá	deduction		should/ought
9C	рò	ability		can
0D	рó	determination		will/shall
0E	рú	offer/invite	invite/offer	can/shall/will
0F	рù	request	request	could
09	рì	possibility		could/may
0A	рé	slight possibility		might
0B	рá	permission	permit/allow/ let	can/could/may
0C	рò	prohibition	prohibit	don't/avoid
0D	рó	obligation	obligate	must
0E	рú	advice/ suggestion	advise/suggest	should/ought/ shall
0F	рù			
Со	m	oarison		
10	bi	yes/true	make_true	true
11	bj	no/false	make_false	false
12	be	negative	make_negative	not
13	ba	equative, copula	make_equal	equal
14	bq	comparative/ comparison	compare	more_than
15	bo	superlative	make_most	most
16	bu	sublative	make_least	least
17	bh	similarity	make_similar	like, as
Pre	epo	osition		

R	О	Noun	Verb	Adjective
18	bí	because		
19	bì	of, about		
1A	bé	for		
1B	bá	by		
10	bò			
1D	bó			
1E	bú			
1F	bù			
Νι	ıml	ber & Size		
20	ti	plural	-S	plural
21	tj	paucal/something		some
22	te	none/nothing		none
23	ta	all/everything		all/every
24	tq	any/anything		any
25	to	much		much
26	tu	little		little
27	th	many		many
28	tí	few		few
29	tì	big		big
2A	té	small		small

Multi-Roots

■ Adhere to normal syntax

Emotions

First root is "m emotion", then one word.

English	0	English	0	English	0
happy	pi	sad	ti	bad	ki
optimistic	рј	hurt	tj	tired	kj
peaceful	ре	humiliated	te	weak	ke
accepted	ра	guilty	ta	stressed	ka
confident	pq	despairing	tq	busy	kq
proud	ро	vulnerable	to	let down	ko
playful	pu	lonely	tu	bored	ku
surprised	bi	fearful	di	angry	gi
excited	bj	scared	dj	mad	gj
amazed	be	anxious	de	frustrated	ge
confused	ba	insecure	da	disgusted	ga
startled	bq	rejected	dq	sceptical	gq
		nervous	do	distant	go

hell - sky cold

teacher - person school

Time & Space Time

First root is "m_time", then one word.

English	О	English	0	English	0
now	ki	while/during	gi	start/firstly	ti
instantly	kii	meanwhile	gii	finish/lastly	tii
then	kj	earlier/ago	gj	whenever	tj
suddenly	kjj	later	gjj	N st/nd/rd	te
again	ke	since	ge	N times	ta
soon	ka	finally	ga	eventually	tq
ever	kq	forever	gq	consequently	tu

Space

First root is "m_space", then one word.

English	0	English	0	English	0
here	ki	in	gi	on/over	ti
there	kii	out	gii	off	tii
anywhere	ke	above	gj	among	tj
nowhere	kee	below	gjj	with	te
source	kq	beside	ge		
destination	kqq	opposite	gee		

Space, Time, Travel

First root is "m_travel", then one word.

English	pi	English	pi	English	pi
start/go	ki	in front	gi	beyond	ti
stop	kii	behind	gii	against	tii
continue	kj	middle/ between	gj	along	tj
up	ke	left	ge	across	te
down	ka	right	ga	through	ta
up to/until	kq	to/toward	gq	far	tq
before/ previously	kee	from/away	go	close/ near/ around	to
after/next	kaa	at/upon	gqq		

Omni-Roots

■ Adhere to normal syntax

*Colours

First root is "o colour", one word proceeds.

С	Texture	٧	Colour	RGB
р	flat & opaque	i	black	000
b	flat & transparent	j	grey	888
t	reflective	е	white	FFF
d	glittery	а	maroon	800
k		q	red	F00
g	dynamic shadows	0	green	080
m	sandy	u	lime	0F0
n	furry/grassy	h	navy	800
f	bumpy	ii	blue	00F
V	jagged	jj	olive	880
У	strobing	ee	yellow	FF0
S		aa	teal	088
Z		qq	aqua	0FF
С		00	purple	808
I		uu	fuchsia	F0F
W		hh	transparent	

Amounts & Units

First root is "o_precise", one word proceeds.

The consonant is quantity, the vowel is power.

Ch	English	Quantity	С
Α	ampere	electric current	р
K	kelvin	temperature	k
S	second	time	S
m	metre	length	m
kg	kilogram	mass	g
cd	candela	luminous intensity	С
mol	mole	substance amount	
V	volt	W/A	V
W	watt	J/s	W
°C	degree Celcius	K+273.15	d
L	litre	$10^{-3} \mathrm{m}^3$	t
rad	radian	1/2π	n
0	degrees	π/180	b
J	joule	kg·m²·s−²	У

English	Power	٧	English	Power	٧
deca	10¹	i	deci	10-1	ii
hecto	10 ²	j	centi	10-2	jj
kilo	10 ³	е	milli	10-3	ee
mega	10 ⁶	а	micro	10-6	aa
giga	10 ⁹	q	nano	10-9	qq
tera	10 ¹²	0	pico	10 ⁻¹²	00
peta	1015	u	femto	10 ⁻¹⁵	uu
exa	1018	h	atto	10-18	hh

Mostly from the International System of Units.

Examples

I ate the same food he ate.

How did you get here?