

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

Eddii VOVCIS			_	. G C		.0115	J.,	GII C	,			
#	Ch	IPA	#	Ch	IPA		#	Ch	IPA	#	Ch	IPA
0	іi	/i/	8	ii í	/í/		0	р	/p/	8	b	/b/
1	jj	/I/	9	jj ì	/Í/		1	t	/b/	9	d	/d/
2	ее	/ε/	Α	ee é	/έ/		2	k	/k/	Α	g	/g/
3	аа	/a/	В	aa á	/á/		3	f	/f/	В	V	/v/
4	qq	/a/	С	qq ò	/à/		4	У	/θ/	С	r	/ð/
5	0 0	/0/	D	00 Ó	/ó/		5	S	/s/	D	Z	/z/
6	u u	/u/	Е	uu ú	/ú/		6	С	/ʃ/	Е	Χ	/3/
7	h h	/ə/	F	hh ù	/á/		7	W	/w/	F		/\/

Native Script

■ One consonant & vowel to each native char

piш	yq ध	biilı	rqq և
tj 🗷	S0 യ	djj لو	200 le
ke Д	cu ગ્ર	gee ∐	xuu 🏻
faℷ௰	wh থ	vaa IJ	lhh ₩

*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	ı
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 generally 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
- It is optional, but recommended, for speakers to double the length of a verb's vowel, and for writers to append a comma (,) after a verb



Semantics

*Genre Semantics

Whereby: (nouns) \underline{S} ubject, \underline{O} bject, \underline{P} ronoun; (other) \underline{V} erb, \underline{A} djective.

Pattern	Semantics & Transivity
SV00	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
SVOPV	S does V to O which P does V to

- 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 2.0 & 2.1

First root is "s_numeric1" for base10 (2.0), "s_numericA" for base16 (2.1), 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

- Pad with vowel <i> when necessary
- Expresses up to 16¹⁶

Periodic Elements

First root is "o_element", then expressed as the number of protons using numeric protocol 2.0.

Kinship

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

Kinship	Link	С
male	link	b
male	final	р
female	link	d
female	final	t
unknown	link	g
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	О	Noun	Verb	Adjective			
Pr	Pronouns						
00	рi	me/l/my	am				
01	рj	you/your	are				
02	pe	they/them/their	is				
03	pa	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	pá	obj_far_us		that			
9C	рò	plu_near_me					
0D	pó	plu_near_you		plu_the			
0E	рú	plu_near_us		these			

\cap	Noun	Verh	Adjective				
		Verb	-				
рù	plu_far_us		those				
Descriptors							
'W	ho' includes all bei	ings ever anima	te				
■ Inclusion begs question							
ti	what/who		what/who				
tj	which		which				
te	where		where				
ta	when		when				
tq	how		how				
to	why		why				
tu	much/many		much/many				
th	really		really/very				
njı	unctions & Evid	entials					
tí	and/also		evi_direct				
tì	xor		evi_non_vis				
té	or		evi_inferred				
tá	nand		evi_speculated				
tò	nor		evi_hearsay				
nse	es						
tó	past	became	past				
tú	present	becomes	present				
tù	future	will_become	future				
ki	person		public				
	pù SC 'w In ti tj te ta tq to th ti ti ti ti ti ti ti ti ti	'who' includes all be Inclusion begs quest ti what/who tj which te where ta when tq how to why tu much/many th really	pù plu_far_us escriptors 'who' includes all beings ever anima Inclusion begs question ti what/who tj which te where ta when tq how to why tu much/many th really njunctions & Evidentials tí and/also tì xor té or tá nand tò nor nses tó past became tú present becomes				

R	О	Noun	Verb	Adjective
22	ke			
23	ka			
24	kq			
25	ko			
26	ku	want	want	wanted
27	kh	need	need	needed
28	kí	ability		able
29	kì	success	succeed	successful
2A	ké			
2B	ká			
2C	kò			
2D	kó			
2E	kú			
2F	kù			
30	fu	fact	know	known
31	fh	display/show/ vista	display/show	viewable
32	fí	clock	watch	watched
33	fì	word	write	
34	fé	book	translate	
35	-			
36	-			
37				
	fú	house	have	homely
39	-			
ЗА	-			
3B	уj			

R	0	Noun	Verb	Adjective
3C	ye			
		school	teach	learned
3E	уq			
3F	yo			
40	yu	ki	say	
41	yh	female		
42	уí	male		
43	уì	child		
44	yé	adult		
45				
46	уò			
47	уó			
48	уú			
49	уù			
		life		alive
4B	sj			
4C	se	work	work	
4D				
4E				
4F				
_	su	plant		
51	-			
_	sí	sky		big
53	-			
54				
55	_			
56	sò			

R	0	Noun	Verb	Adjective
57	só			
58	sú	heat		hot
59	sù	cold		cold
5A	Сİ			
5B				
5C	ce			
5D				
5E	cq			
5F		water	drink	wet
60		food/possession	eat	hungry
		cooking	cook	cooked
62	Сĺ			
63	-			
64				
65				
66				
67				
68				
69				
6A				
6B				
6C				
6D				
6E				
6F	СÙ			
Мι	ılti	-Roots		

R	0	Noun	Verb	Adjective			
70	wi	m_grammar					
71	wj	m_time					
72	we	m_space					
73	wa	m_travel					
74	wq	m_emotion					
75	wo						
76	wu						
77	wh	s_element					
Sp	ec	ial & Omni- Roo	ots				
78	wí	s_numeric0					
79	wì	s_numeric1					
7A	wé	s_numericA					
7B	wá	o_colour					
7C	wò	o_precise					
7D	wó	o_kinship					
Νι	Null & Period						
7E	wú	null					
7F	wù	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	Aspects						
00	рi	progressive/ imperfect	do	progressive/ imperfect/ exists/ happening			
01	рj	perfective	complete	perfective/ complete			
02	pe	prospective		prospective/ will_happen			
03	ра	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			
98	рí	resumptive/ resumption	resume	resumed			
М	Mood & Condition						
09	рì	condition		if			

R	0	Noun	Verb	Adjective
0Α	рé			would
0B	рá	deduction		should/ought
0C	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
0В	pá	permission	permit/allow/ let	can/could/may
9C	рò	prohibition	prohibit	don't/avoid
0D	рó	obligation	obligate	must
0E	рú	advice/ suggestion	advise/suggest	should/ought/ shall
0F	рù	intention	intend	intended
Сс	m	oarison		
10	ti	yes/true	make_true	true
11	tj	no/false	make_false	false
12	te	negative	make_negative	not
13	ta	equative, copula	make_equal	equal
14	tq	comparative/ comparison	compare	more_than
15	to	superlative	make_most	most
16	tu	sublative	make_least	least
17	th	similarity	make_similar	like, as
Pre	epo	osition		

R	О	Noun	Verb	Adjective
18	tí	because		
19	tì	of, about		
1A	té	for		
1B	tá	by		
10	tò			
1D	tó			
1E	tú			
1F	tù			
Nι	ıml	ber & Size		
20	ki	plural	-S	plural
21	kj	paucal/something		some
22	ke	none/nothing		none
23	ka	all/everything		all/every
24	kq	any/anything		any
25	ko	much		much
26	ku	little		little
27	kh	many		many
28	kí	few		few
29	kì	big		big
2A	ké	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	ki	bad	уi
optimistic	рј	hurt	kj	tired	уj
peaceful	ре	humiliated	ke	weak	ye
accepted	ра	guilty	ka	stressed	ya
confident	pq	despairing	kq	busy	уq
proud	ро	vulnerable	ko	let down	уо
playful	pu	lonely	ku	bored	yu
surprised	ti	fearful	fi	angry	si
excited	tj	scared	fj	mad	sj
amazed	te	anxious	fe	frustrated	se
confused	ta	insecure	fa	disgusted	sa
startled	tq	rejected	fq	sceptical	sq
		nervous	fo	distant	SO

Time & Space

First root is "m_vector", then one word.

Time

English	О	English	О	English	0
now	pi	while/during	ti	start/firstly	ki
instantly	pii	meanwhile	tii	finish/lastly	kii
then	рј	earlier/ago	tj	whenever	kj
suddenly	рјј	later	tjj	N st/nd/rd	ke
again	ре	since	te	N times	ka
soon	ра	finally	ta	eventually	kq
ever	pq	forever	tq	consequently	ku

Space

English	0	English	0
here	fi	in	yi
there	fii	out	yii
anywhere	fj	above	уj
nowhere	fjj	below	ујј
source	fe	beside	ye
destination	fee	opposite	yee
among	fa	on/over	ya
with	fq	off	yaa

Space, Time, Travel

First root is "m_travel", then one word.

English	0	English	0	English	0
start/go	si	in front	ci	beyond	wi
stop	sii	behind	cii	against	wii
continue	Sj	middle/ between	cj	along	wj
ир	se	left	се	across	we
down	sa	right	са	through	wa
up to/until	sq	to/toward	cq	far	wq
before/ previously	SO	from/away	СО	close/near/ around	WO
after/next	su	at/upon	cu	succession	wu

Generic

Roots	Noun	Verb	Adjective
sky cold	hell		
person school	teacher		
word word	sentence		

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Omni-Roots

■ Most adhere to normal syntax

*Colours

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

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

Units & Powers

■ Interrupts normal syntax – must be regular noun

First root is "o_precise", one word proceeds.

The consonant is unit, 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	1
V	volt	W/A	V
W	watt	J/s	W
°C	degree Celcius	K+273.15	d
L	litre	10^{-3} m^3	t
rad	radian	1/2π	n
0	degree	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	10³	е	milli	10-3	ee
mega	10 ⁶	а	micro	10-6	aa
giga	10 ⁹	q	nano	10-9	qq
tera	1012	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*.

Dates & Time "This Saturday/Next Saturday" yyyymmdd (big endian)

Examples

I ate the same food he ate.

How did you get here?

The children said they had eaten the plant child !the_plu !past say they plant eat ka fó vó ki, pe gi mi,

■ Note how the subject is made past, and so the whole sentence happened in the past

Does anyone have a sentence for me to translate?

person !any have word !word me translate ! intended

ti litq dí, da sa pi dq, lipù

My biggest success is me being alive

!success my !most is !alive me

gji pi lido pe, zi pi

■ Note how the adjective is applied to the verb