# Loglan Paradigms

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# Paradigm A: SIGNS & PUNCTUATION MARKS

Words which have optional non-phonemic representations in written Loglan and which correspond roughly to the punctuation marks and mathametical signs of English are listed here. Other non-phonemic signs may be found in Paradigm H, Quantifiers; and Paradigm M, Alphabet Words.

bi	[=]	is (identity)	kue	[\]	under/dividing
bie	$[\in]$	is a member of	li	[ «]	(left quote)
cie	[<]	is less than	lu	[»]	(right quote)
cio	[ > ]	is greater than	nea	[-]	negative (sign of a negative number)
ci	[ _ ]	(open hyphen)	nio	[-]	minus/less (sign of subtraction)
gie	[[]	(left close bracket)	$_{ m niu}$	[*]	the incorrect Loglan
giu		(right close bracket)	pea	[+]	positive (sign of a positive number)
hie	[(]	(left close parenthesis)	pio	[ + ]	plus/and (sign of addition)
hi	[,]	(close comma)	pi	[.]	(decimal point)
hiu	[)]	(right close parenthesis)	$_{ m tia}$	[ * ]	times/multiplied by
kie	[ (]	(left open parenthesis)	У	[-]	(close hyphen)
kiu	[)]	(right open parenthesis)	zoa	[" ]	double prime
kua	[/]	over/divided by	zoi	[']	prime

### Paradigm B: LOGICAL CONNECTIVES

Elements: no-/-no-/-noi negative affixes or nu-/-nuconversion (only with u) е and c- / -c mark of word & sentence forms i means mark of sentence forms whether k- / -k mark of context-free forms

Contexts: L-Connectives occur in 3 context-specific and 1 context-free form: (1) between terms (i.e., arguments or predicates) where they are unmarked; (2) between words in predicate expressions, where they are marked with  $\mathbf{c}$ ; (3) between sentences, where they are marked with  $\mathbf{i}$  and  $\mathbf{c}$ ; and (4) in any of these in a form marked by a leading prefix k- (possibly with a suffix of -noi), and with a trailing  $\dots$  **ki** (or  $\dots$  **kinoi**).

English Expressions	Between Terms	$\begin{array}{c} {\bf Between} \\ {\bf Words} \end{array}$	Between Sentences	Context-Free
	(1)	(2)	(3)	(4)
or (inclusive sense)	a	ca	ica	kaki
and	e	ce	ice	ke
if and only if / means	O	co	ico	ko
whether	u	cu	icu	nuku
whether,	nuu	nucu	inucu	ku
only if	noa	noca	inoca	kanoiki
$not \dots and \dots$	noe	noce	inoce	kenoi
$\operatorname{not} \ldots \operatorname{means} \ldots / \operatorname{or} (\operatorname{excl.})$	$100^{1}$	noco	inoco	nukonoi
$not \dots, whether \dots$	nou	nocu	inocu	nukunoi
whether, not	$nonuu^2$	nocnuu	inocnuu	nuknuunoi
if	anoi	canoi	icanoi	kakinoi
and not	enoi	cenoi	icenoi	ke
means not / or (excl.)	onoi	conoi	iconoi	ko
whether not	$\mathrm{unoi}^3$	cunoi	icunoi	ku
whether $\dots$ , not	nuunoi	nucunoi	inucunoi	ku
. 1 . 1 . 1				1 . 1
not both and	noanoi	nocanoi	inocanoi	kanoikinoi
neither nor	noenoi	nocenoi	inocenoi	ke
not means not	noonoi <sup>4</sup>	noconoi	inoconoi	konoi
not, whether not	nounoi <sup>5</sup>	nocunoi	inocunoi	kunoi
whether not $\dots$ , not $\dots$	$nonuunoi^6$	nonucunoi	inonucunoi	kanoi

Note: Any of the Logical Connectives can be suffixed with a combination of Tense Operators, Causal Operators, and Location Operators: for example: efa = "and-after"; enukou = "and-thus"; evu = "and-yonder"; **efavu** = "and-yonder-after"; etc.

- 3. unoi 1. noo onoi by 5. nounoi by nou
- nuu noonoi by O nonuunoi nuunoi

 $<sup>^{1,2,3,4,5,6}</sup>$  The forms on these rows occur only briefly in speech, being transformational products and immediately replacable by their equivalents as follows:

### Paradigm C: CAUSAL CONNECTIVES

Elements: kou physical sense no-/-nonegative affixes moi motivational sense nu-/-nuconversion affixes justificational sense imark of sentence forms rau sense of entailment mark of context-free forms soa -ki

Contexts: C-Connectives occur in 2 context-specific and 1 context-free form: (1) prepositional (before arguments) where they are unmarked; (2) conjuctival (between sentences) where marked with **i**; and (3) either of these contexts or any context in which L-Connectives may occur (see Paradigm B) in forms marked by marked by a leading suffix -ki (possibly with a prefixed nu-, nuno-, or no-) and with a following ...ki.

English Expression	Before Arguments (Prepositional)	Before Sentences (Conjuctival)	Context-Free (with ki)
because, since, for, etc.	kou moi rau soa + Causes	$E + \frac{ikou}{imoi} + C$ $isoa$	nukoukiki numoiki nurauki nusoaki
therefore, thus, so, etc.	nukou numoi nurau nusoa + Effects	$C + rac{\mathrm{inukou}}{\mathrm{inumoi}} + E$ $\mathrm{inusoa}$	koukiki moiki rauki soaki
although, even though, etc.	nokou nomoi norau nosoa + Causes	$\begin{array}{c} \operatorname{inokou} \\ \operatorname{E} + \operatorname{inomoi} \\ \operatorname{inorau} \\ \operatorname{inosoa} \end{array} + \operatorname{C}$	nunokoukiki nunomoiki nunorauki nunosoaki
nevertheless, despite that, even so, etc.	nunokou nunomoi nunorau nunosoa + Effects	$\begin{array}{c} \mathrm{inunokou} \\ \mathrm{C} + \mathrm{inunomoi} \\ \mathrm{inunorau} \\ \mathrm{inunosoa} \end{array} + \mathrm{E} \\$	nokoukiki nomoiki norauki nosoaki

#### Paradigm D: TENSE OPERATORS

paza

pazu

etc

recently

long ago

```
(past) / before / then
Elements:
             pa
                                                  -zi
                                                        of moments/short intervals
                   (present) / at / in / now
                                                        of medium length intervals
             na
                                                  -za
                   (future) / after / afterwards
             fa
                                                        of long length intervals
                                                  -zu
             -i-
                   an infix meaning continuity
                                                  -u-
                                                        an infix meaning habitualness
```

Forms: Tense operators may be (1) simple, (2) continuous (with an infixed -i-, (3) habitual (with an infixed -u-, (4) compound; and any of these may me (5) quantified with any of the affixes zi, za, or zu. Any form may occur in any context.

Contexts: There are 3 contexts: (i) before predicates, where they function as verbal inflections of that predicate; (ii) before arguments, where they function as prepositions (with concrete arguments) or conjuctions (with abstract ones); and (iii) in any other position where they function as adverbial modifiers of the sentence as a whole, or suitably punctuated, of the elements they follow.

Null-Form: Standing outside this system is the word ga which preserves the timelessness of the unadorned predicate in contexts in which the predicate would otherwise be absorbed by a preceding description:
Le mrenu ga penso = "The man is a thinker" vs. Le mrenu penso = "The man-type of thinker".
Ga can also take the forms gia and gua, for the continous and habitual senses; and gua, which has a "strong potentiality" sense.

Inflection 3 Simple Tenses: paed / was / was a nas / is a fa will / will being /		Prepositio Conjunction before at / during after	on		Adverbial Modifier then / formerly now / currently afterwards		
3 Continous Tenses:							
pia wasing/ was being (a)		until			until now		
nia is nowing / is now bei	ng (a)	while			meanwhile		
fia will be/ will being		since $\dots$			ever since		
3 Habitual Tenses:  puaed / was / was a  nuas / is a (habitually)  fua will be / will being		at / during	/ when		then / formerly (hab.) now / currently (hab.) ever since (hab.)		
9 Compound Tenses: (here t	ranslated or	nly as infecti	ions)				
papa had (past perfect)	pana was	then	pafa	was going	; to		
napa has (present perfect)	nana is ju	ust now	nafa	is now go	ing to		
fapa will have (future perfect)	fana will	then be	fafa	will be go	oing to		
A large number of Quantified pazi just now		nediately	piazi	continous	ly and briefly before now		
	_	•	-				

Note: Tense Operators, Causal Operators, and Location Operators can be combined in arbitary ways navi = "here-now"; vakou = "there-causing"; etc. Also, such forms such as pacenoina = "once-but-not-now"; vicava = "here-or-there"; etc., may be used. And, quantified forms may be formed by prefixing a Quantifier before a Tense Operator, Causal Operator, or Location Operator: nina = "never"; nepa = "once (in the past)"; rava = "everywhere"; etc. Also, zi, za, and zu may be used as a prefixes, where they denote the length of the event: zipazu = "long ago, for a short time".

piaza

piazu

etc

continously for a short time before now

continously for a long time before

faza

fazu

etc

soon

eventually

# Paradigm E: LOCATION OPERATORS

Contexts & Forms: The same as for tense operators: (1) inflectional, (2) prepositional/conjuctival, and (3) adverbial. Contexts (1) and (3) are not well distinguished in English.

3 Sin vi va vu	Inflector mple Locators: here near here far away	Preposition or Conjunction  at/in/where near / near the place where far from / far from where	Adverbial  here nearby away								
3 Ex vii via viu	throughout, a small place throughout, a large place	throughout, a small place throughout, a medium place throughout, a large place	throughout, a small place throughout, a medium place throughout, a large place								
9 Co vivi viva vivu	viva out of (a short way) vava past (nearby) vuva toward										
A la vizi viza vuza	in, a small place vaza r	near, a spot vuzi fa near, a small place vuza fa	ed prepositionally) or from, a spot or from, a small place or from, a region								

### Paradigm F: VARIABLES

Forms: Variables correspond to the pronouns of English and are of seven forms, as below. In addition, any variable may be subscripted by using the infix -ci- between it and any Quantifier (Paradigm H), any Alphabet Word (Paradigm M), or any other variable.

#### Personal Variables Singular Plural Multiple Set Ι $_{ m mi}$ I, you mumoI, other(s) miu mio I, you, other(s) muumuo you tu ${\rm tou}$ tooyou, other(s) tuutuo

3rd	Person, Definite	3rd	Person, Indefinite
da	X/the Xs/he/she/it/him/her/they/them	ba	someone/something x
de	Y/the Ys/he/she/it/him/her/they/them	be	someone/something y
di	W/the Ws/he/she/it/him/her/they/them		
do	H/the Hs/he/she/it/him/her/they/them	bo	someone/something h
du	Q/the Qs/he/she/it/him/her/they/them	bu	someone/something q

	Demonstrative Variables										
ti	this	ta	that								
toi	that remark previously mentioned	toa	this remark about to be mentioned								
tio	that situation previously mentioned	tao	this situation about to be mentioned								
	Predicate	Varia	ables								
dua	is / does (the former)	dui	is / does (the latter)								
bua	this	bui	that								

Subscripted Forms: dacine = "X-sub-1"; micitu = "me-sub-you"; deci,ama = "Y-sub-A"; etc.

Note: Any of the Alphabet Words of Paradigm M may be used either as variables or as "constants", i.e., variables with an arbitarily constant designation.

# Paradigm G: DESCRIPTORS

Form: Descriptors may be (1) simple, (2) specified (prefixed to a time or location operator), or (3) possesive (prefixed to a variable). These correspond to English (i) definite articles, (ii) demonstrative adjectives, and (iii) possesive pronouns. Only la, laa, le, lea, lee, leu, lo, and loe may be used in specified or possesive forms. In addition, the quote words li, lii, liu, and lie may be optionally suffixed with -zi for the written form of the quoted, and -za for the spoken form.

Contexts: Lao is used before foreign names, la before names, lae and lue before arguments, lau and lou before lists, lie before foreign phrases, lii before letters, lio before quantifiers, li...lu around quotations, liu before words, and lua and luo after lists. All other descriptors occur in one context only: before untensed predicate expressions.

#### 18 Simple Descriptors:

```
the one named
la
le
               the
lo
               the mass of
li . . . lu
               the utterance...
               the unique...(le)
laa
               the addressee of... (indirect designation)
lae
lao
               the foreign name...(la)
lau ... (lua)
               the set...(le)
               the set of all...(le)
lea
lee
               an arbitrary...(le)
               the particular set of...(le)
leu
lie
               (strong quotation mark) (li)
lii
               the letter/sound...(li)
lio
               the number...
liu
               the word...(li)
               the typical...(le)
loe
lou ...(luo)
               the ordered list...(le)
               a/the sign/address of ... (inverse of lae)
lue
```

#### Many Specified Descriptors: Many Possessive Descriptors:

```
levi
       this/these ...
                                     lemi
                                              my ...
leva
       that/those (nearby) ...
                                     letu
                                              your ...
levu
       that/those (distant) ...
                                     lemu
                                              our ...
lepa
       the-former \dots
                                     leda
                                              X's / his / hers / its / their ...
lena
       the-present ...
                                     leba
                                              x's / someone's / something's
                                     levina
                                              the-here-and-now \dots
lefa
       the-future ...
etc.
                                     etc.
```

# Paradigm H: QUANTIFIERS

		$\mathbf{N}$	umeric			Non-Numeric			
Elements:	n-	0  or  1	-e	odd		ra	all/each/every one of		
	t-	2 or 3	-O	even		re	most of		
	f-	4  or  5	-i	zero(0)		ri	several/a few of		
	s-	6  or  7	-ma	hundreds	(Ø)	ro	many of		
	v-	8 or 9	-mo	thousands	$s(\theta)$	ru	enough of		
		pi-/-pi	- point	-/-point- (.)	)				
						sa-	aroundof		
Digits	Te	ns	Hun	dreds, Etc	<b>:</b> .	si-	at mostof		
						su-	at leastof		
ni = 0	nen	i = 10		$\mu = 1$ Ø $= 100$		sasi-	almostof		
ne = 1	nen	e = 11		=200		sasu-	barelyof		
to = 2	net	o = 12	$_{ m tema}$	$= 3\emptyset = 300$	)				
te = 3	etc.	•	etc.						
fo = 4						$\mathbf{A}$	bbreviations		
fe = 5		i = 20		0 = 10 = 1,0		sa = sara	almost all of		
so = 6		i = 30		no = 10 = 1		si = sine	at most one of		
se = 7		i = 40		mo = 100 =		su = sune	at least one of		
vo = 8		i = 30		0 mo = 100  s	= 1,000,000	sasi = sasine	almost one of		
ve = 9	etc.		etc.			sasi = sasine	barely one of		
			Fr	actional F	'orms:				
		(the			or non-nume	oric)			
pine = .1			epife =			e whole)			
pito = .1			opisu =	•	,	ome whole)			
pite = .3			epise =	-		(some whole)			
piso = .4			etc.	piro		ome whole)	•		
etc.				piru	,	(some whole)			
						(44.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4			
pinine = .01				pisa		of (some whole)			
pimane = $.\emptyset$				pisi		tenth of (some v	,		
$\begin{array}{l} \text{pimone} = .0 \\ \text{etc.} \end{array}$	1 =	.0001		pisu	at least a t	senth of (some v	vhole)		

### Paradigm I: INDICATORS

#### Conviction Scale Intention Scale Yes / certainly / It's true that ... Yes / I will $\dots$ probably I want to ... io ao ii perhaps / possibly I hope to ... ae iu I don't know au I don't care whether ... ii no perhaps not I hope not to ... ae no probably not I want not to ... io no ao no No / It's not true that ... No / I will not ... ia no ai no **Obligation Scale** Non-scalar Additudes I/you must ... There! (satisfaction/completion) ua I/you should ... Well! (surprise) oe ue How nice! Good! (pleasure) oi I/you may ... ui It doesn't matter whether ... What! (anger/annoyance) ou uo What a shame! (sorrow/sympathy) oi no I/you are permitted not to ... uu oe no I/you should not ... I see (what you mean) aa oa no I/you must not / No, don't do ... ee Caution / Careful / Take care Hmm (disapproval) 00Interrogatives Which? / / Who? / What? Please? / Will you let us ...? Let's ... / I suggest that ... Let us suppose that ... (sign of subjective mood) eu Is that so? / is it true that ...?

**Note:** Compound indicators are possible, e.g., **uiai** = "I will gladly ..."; **uuia** = "I am sorry to say so, but ..."; etc.

## Paradigm J: DISCURSIVES

Discourse operators are CVV-form words usually derived from 5-letter predicates. Their function is to relate new elements in a discourse to the foregoing portions. They are self-contained modifiers like indicators and occur in all the contexts of modifier forms. At present time there are 28 such words but the list may be extended indefinitely; see Paradigm L. Also, any Quantifier may be prefixed to **-fi**, forming ordinals: **nefi** = "first"; **tofi** = "second"; **rafi** = "last"; etc.

bea biu buo cea ceu	For example/For instance (cf. piu) Hence it is possible that <sup>1</sup> However/In contrast/On the contrary That is/In other words Anyway/In any case	(bleka = look) (blicu = possible) (bufpo = opposite) (cenja = change) (clesi = without)
cia coa coi dau dou	Similarly/Like the foregoing In short/In sum/By way of summary According to/In principle Hence it is probable that <sup>2</sup> Given/By hypothesis/As assumed	(clika = like) (corta = short) (tcori = authority) (dakli = probable) (donsu = give)
fae fao feu gea kuo	And vice versa (reverses the order of terms) Finally/In conclusion In fact/Actually/Indeed Again/I repeat Usually/Customarily	(fanve = reverse) (fando = end) (fekto = fact) (genza = again) (kusmo = custom)
kuu nao nie pae piu	Generally/Generalizing from the above Changing topics/(New paragraph) In detail/Looking closely And so forth/etc. In particular/Applying the above (cf. bea)	(kumtu = common) (Eng. "Now") (snire = near) (prase = continue) (plizo = use)
rea saa sii sui taa	Clearly/Obviously Loosely/Roughly/Simply speaking Apparently/Evidently Also/Moreover/Besides/Furthermore/Too/In addition In turn/In sequence	(frena = in front) (sapla = simple) (simci = seem) (sumji = sum) (trana = turn)
toe voi zou	Respectively Skipping details By the way/Incidentally	(to = two) (valti = jump) (dzoru = walk)

<sup>&</sup>lt;sup>1,2</sup> **biu** and **dau** differ from the indicators **ii** and **io** in that the former relate the possibility or probability of some claim to a foregoing statement (or statements), not the attitude of the speaker.

#### Paradigm K: MODAL OPERATORS

Semantically, modal operators are optional extensions of the place-scructure of any predicate which specify the mode, means, manner, source, or conditions which a predicable relationship obtains. Syntactically, they are used like tense or location operators to form phrases or clauses. Like discursives, they are CVV-form words, and generally derived from 5-letter predicates; at present there are 12 such such words but the list may be extended indefinitely; see Paradigm L.

```
as much as/as little as/to the same degree as...
ciu
                                                          (ciktu = equals)
       according to rule/method/ authority...
                                                          (tcori = authority)
coi
dii
       for/on behalf of...
                                                          (dilri = represent)
       in manner/mode.../by method...
duo
                                                          (durzo = do)
hea
       with...'s help/through agent...
                                                          (helba = help)
                                                          (kinci = with)
kii
       with/accompanied by...
lia
       like/as/in the way that...
                                                          (clika = like)
lui^1
       for/in order to please...
                                                          (pluci = please)
mou
       more than/to a greater degree than
                                                          (mordu = more)
       re/concerning/as for/with regard to...
                                                          (perti = pertain)
peu
       instead of/in place of...
                                                          (setfa = put)
sea
                                                          (trime = tool)
tie
       with..., a tool or means
```

Note: ciu and mou form the following series:

ciuequal tonociunot equal tomougreater thannomounot greater than

numou less than

**nunomou** greater than or equal to

<sup>&</sup>lt;sup>1</sup> lui differs from the indicator cia in that the former relates the element it modifies to definite arguments, whereas the latter relates the element to the foregoing discourse.

# Paradigm L: UNASSIGNED CVV-FORM WORDS

The 107 still unassigned CVV-sequences are shown by blanks (-) in the table; the 319 words entered here have meanings in the current lexicon.

	b-	c-	d-	f-	g-	h-	j-	k-	l-	m-	n-	p-	r-	S-	t-	v-	z-
-aa	baa	-	daa	faa	gaa	haa	-	kaa	laa	maa	naa	-	raa	saa	taa	vaa	-
-ae	bae	cae	-	fae	-	-	$_{ m jae}$	kae	lae	mae	-	pae	rae	sae	tae	-	-
-ai	bai	cai	$_{ m dai}$	fai	$_{\mathrm{gai}}$	hai	jai	kai	lai	$_{ m mai}$	$_{ m nai}$	pai	rai	sai	tai	vai	zai
-ao	-	cao	dao	fao	gao	hao	jao	kao	lao	mao	nao	pao	rao	sao	tao	vao	zao
-au	-	cau	dau	fau	gau	hau	-	kau	lau	-	nau	-	rau	sau	tau	vau	-
-ea	bea	cea	dea	fea	gea	hea	-	kea	lea	mea	nea	pea	rea	sea	-	vea	zea
-ee	-	-	-	-	gee	-	-	-	lee	-	-	pee	-	-	-	-	-
-ei	bei	cei	dei	fei	gei	hei	jei	kei	lei	$_{ m mei}$	$_{ m nei}$	pei	rei	sei	tei	vei	zei
-eo	beo	ceo	deo	feo	geo	heo	jeo	keo	leo	meo	neo	peo	reo	seo	teo	veo	zeo
-eu	beu	ceu	deu	feu	geu	-	-	keu	leu	meu	neu	peu	reu	-	teu	veu	zeu
-ia	bia	cia	$_{ m dia}$	fia	$_{ m gia}$	hia	-	kia	lia	$_{ m mia}$	$_{ m nia}$	$_{ m pia}$	$_{ m ria}$	sia	$_{ m tia}$	via	zia
-ie	bie	cie	die	fie	gie	hie	jie	kie	lie	-	$_{ m nie}$	$_{ m pie}$	$_{ m rie}$	-	tie	vie	zie
-ii	bii	-	dii	fii	-	-	-	kii	lii	$_{ m mii}$	-	-	rii	sii	-	vii	-
-io	bio	cio	dio	fio	-	-	jio	kio	lio	$_{ m mio}$	nio	pio	-	sio	tio	-	zio
-iu	biu	ciu	$\operatorname{diu}$	fiu	$_{ m giu}$	hiu	-	kiu	liu	$_{ m miu}$	$_{ m niu}$	piu	$_{ m riu}$	$\sin$	$_{ m tiu}$	viu	-
-oa	-	$\cos$	-	foa	goa	hoa	-	koa	loa	moa	noa	poa	roa	soa	toa	-	zoa
-oe	-	-	-	-	-	-	-	koe	loe	-	noe	-	-	soe	toe	-	-
-oi	boi	coi	-	foi	goi	hoi	-	koi	loi	moi	$_{ m noi}$	poi	roi	soi	toi	voi	zoi
-00	-	-	-	-	-	hoo	-	koo	-	moo	noo	-	-	-	too	-	-
-ou	bou	cou	dou	-	-	hou	-	kou	lou	mou	nou	pou	rou	-	tou	-	zou
-ua	bua	-	dua	fua	gua	-	jua	kua	lua	-	nua	pua	rua	sua	tua	-	zua
-ue	bue	cue	-	-	gue	hue	jue	$_{ m kue}$	lue	mue	nue	pue	rue	sue	tue	-	zue
-ui	bui	cui	dui	fui	gui	hui	jui	kui	lui	mui	$_{ m nui}$	-	$\operatorname{rui}$	sui	tui	-	zui
-uo	buo	cuo	duo	fuo	guo	-	juo	kuo	luo	muo	nuo	puo	-	suo	tuo	-	zuo
-uu	buu	-	-	-	guu	-	-	kuu	-	muu	nuu	puu	ruu	suu	tuu	-	zuu

### Paradigm M: ALPHABET WORDS

Each of the 26 Loglan phonemes has been combined with 6 alphabetic suffixes as follows:

If a vowel, with:

If a consonant, with:

-ma Latin capital

-si Latin lower case

-fi Greek lower case

-eo Greek lower case

Greek capitals are generated by prefixing **gao** to the phoneme for consonants, and **gao**, for vowels. This generates a pool of 94 alphabet words and signs which may be used as variables or constants, in dimensioned numbers and acronyms, or for the spelling of words.

	Latin 1	Letters			$Greek Letters^1$				
Cap	oitals	Lowe	r Case	Ca	pitals	itals Lower Case			
$\mathbf{Sign}$	Word	$\mathbf{Sign}$	$\mathbf{Word}$	$\mathbf{Sign}$	$\mathbf{Word}$	$\mathbf{Sign}$	Word		
A	Ama	a	asi	A	gao,afi	$\alpha$	afi	(alpha)	
В	Bai	b	bei	B	gaobeo	$\beta$	beo	(beta)	
$\mathbf{C}$	Cai	$\mathbf{c}$	cei	X	gaoceo	$\chi$	ceo	(chi)	
D	Dai	d	dei	$\Delta$	gaodeo	$\delta$	deo	(delta)	
$\mathbf{E}$	$\operatorname{Ema}$	e	esi	E	gao,efi	$\epsilon$	efi	(epsilon)	
$\mathbf{F}$	Fai	f	fei	$\Gamma$	gaogeo	$\gamma$	geo	(gamma)	
G	Gai	g	gei	I	gao,ifi	$\iota$	ifi	(iota)	
Η	Hai	h	hei	Ξ	gaojeo	ξ	jeo	(xi)	
I	$\operatorname{Ima}$	i	isi	K	gaokeo	$\kappa$	keo	(kappa)	
J	Jai	j	jei	$\Lambda$	gaoleo	$\lambda$	leo	(lambda)	
K	Kai	k	kei	M	gaomeo	$\mu$	meo	(mu)	
L	Lai	1	lei	N	gaoneo	$\nu$	neo	(nu)	
M	Mai	$\mathbf{m}$	mei	$\Omega$	gao,ofi	$\omega$	ofi	(omega)	
N	Nai	$\mathbf{n}$	nei	$\Pi$	gaopeo	$\pi$	peo	(pi)	
O	Oma	O	osi	$\Theta$	gaoqeo	$\theta$	qeo	(theta)	
P	Pai	p	pei	P	gaoreo	ho	reo	(rho)	
Q	Qai	$\mathbf{q}$	qei	$\Sigma$	gaoseo	$\sigma$	seo	(sigma)	
$\mathbf{R}$	Rai	$\mathbf{r}$	rei	T	gaoteo	au	teo	(tau)	
$\mathbf{S}$	Sai	$\mathbf{s}$	sei	$\Upsilon$	gao,ufi	v	ufi	(upsilon)	
${ m T}$	Tai	t	tei	$\Psi$	gaoveo	$\psi$	veo	(psi)	
U	$_{\mathrm{Uma}}$	u	usi	Z	gaozeo	$\zeta$	zeo	(zeta)	
V	Vai	$\mathbf{V}$	vei						
W	Wma	w	wsi						
X	Xai	X	xei						
Y	Yma	У	ysi						
$\mathbf{Z}$	Zai	$\mathbf{Z}$	zei						

<sup>&</sup>lt;sup>1</sup> As Greek does not contain the Loglan sounds **c**, **j**, and **v**, it has been necessary to assign the Greek letter-words for **chi**, **xi**, and **psi** rather arbitariarly to these sounds. This leaves two Greek letters unused, namely **eta** and **omicron**.

## Paradigm N: OPTIONAL CASE TAGS

With optional case tags, the arguments of a predicate can be put in non-standard order. The case tags listed below in the table are semantic case tags; another set of case tags are non-semantic and based on the standard order of the arguments of the unconverted predicate:  $\mathbf{zua} =$  "the normally first argument";  $\mathbf{zue} =$  "the normally second argument";  $\mathbf{zui} =$  "the normally third argument";  $\mathbf{zuo} =$  "the normally fourth argument"; and  $\mathbf{zuu} =$  "the normally fifth argument".

beu	В	Bekti	(object)	"-/in"	Patients, Parts, Properties	
cau	$\mathbf{C}$	Canli	(quantity)	"by/for"	Quantities, Amounts, Values	
dio	D	Dirco	(direction)	"to/for"	Recipients, Beneficiaries, Destinations	
foa	$\mathbf{F}$	Folma	(full)	"in/of"	Wholes, Sets, Collectivities	
jui	J	Junti	(young)	"than"	Lessers in greater/lesser than relations	
kao	K	Kakto	(act)	"-/by"	Actors, Agents, Doers	
neu	Ν	Nerbi	(necessary)	"under"	Conditions, Fields, Circumstances	
pou	Ρ	Proju	(produce)	"_"	Products, Outputs, Purposes	
goa	G	$\operatorname{Groda}$	(big)	"than"	Greaters in greater/lesser than relations	
sau	$\mathbf{S}$	Satci	(start)	"from"	Sources, Origins, Reasons, Causes	
veu	V	Vetci	(event)	"by/via"	Events, States, Deeds, Means, Routes, Effects	