

# LOJBAN ATTITUDINALS, EVIDENTIALS AND DISCURSIVES

## EMOTIONAL STRENGTH MODIFIERS

cmavo	effect
cai	Very strong
sai	Strong
...	Normal
ru'e	Weak
cu'i	Neutral scalar
nairu'e	Weak negative
nai	Normal negative
naisai	Strong negative
naicai	Very strong negative

## SIMPLE PROPOSITIONAL EMOTIONS

cmavo	...	-cu'i	-nai
.a'a	attentive	inattentive	avoiding
.a'e	alertness	exhaustion	
.ai	intent	indecision	refusal
.a'i	effort	lack of effort	repose
.a'o	hope	despair	
.au	desire	indifference	reluctance
.a'u	interest	no interest	repulsion

## COMPLEX PROPOSITIONAL EMOTIONS

cmavo	...	-cu'i	-nai
.e'a	permission		prohibition
.e'e	competence		incompetence
.ei	obligation		freedom
.e'i	constraint	independence	resistance to constraint
.e'o	request		negative request
.e'u	suggestion	no suggestion	warning
.ia	belief	skepticism	disbelief
.i'a	acceptance		blame
.ie	agreement	neutrality	disagreement
.i'e	approval	non-approval	disapproval

## MISCELLANEOUS PURE EMOTIONS

cmavo	...	-cu'i	-nai
.ii	fear	nervousness	security
.i'i	togetherness		privacy
.io	respect	lack of respect	disrespect
.i'o	appreciation	lack of appreciation	envy
.iu	love	lack of love	hatred/fear
.i'u	familiarity		mystery

## COMPLEX PURE EMOTIONS

cmavo	...	-cu'i	-nai
.o'a	pride	modesty	shame
.o'e	closeness	detachment	distance
.oi	complaint/pain	no complaints	pleasure
.o'i	caution	boldness	rashness
.o'o	patience	mere tolerance	anger
.o'u	relaxation	composure	stress

## SIMPLE PURE EMOTIONS

cmavo	...	-cu'i	-nai
.ua	discovery		confusion
.u'a	gain		loss
.ue	surprise	no surprise	expectation
.u'e	wonder		commonplace
.ui	happiness		unhappiness
.u'i	amusement		weariness
.uo	completion		incompleteness
.u'o	courage	timidity	cowardice
.uu	pity		cruelty
.u'u	repentance	lack of regret	innocence

## EMOTIONAL CATEGORIES

cmavo	...	-cu'i	-nai
ro'a	social	asocial	antisocial
ro'e	mental	absentminded	mindless
ro'i	emotional	emotionless	denying emotion
ro'o	physical	intangible	denying physical
ro'u	sexual	asexual	sexual abstinence
re'e	spiritual	secular	sacrilegious

## EMOTIONAL MODIFIERS

cmavo	gismu	...	-cu'i	-nai
ga'i	galtu	hauteur/rank	equal rank	meekness
le'o		aggressive	passive	defensive
vu'e	vrude	virtue		sin
se'i	sevzi	self-orientation		other-orientation
ri'e	zifre	release	control	restraint
fu'i	frili	easily	without help	with difficulty
be'u		lack of	enough of	too much of
se'a	sevzi	self-sufficiency		dependency

## EMOTIONAL SPECIALS

cmavo	...	-cu'i	-nai
pei	attitude question		
dai	empathic transfer		
bu'o	start emotion	continue emotion	end emotion

## EVIDENTIALS

cmavo	gismu	...	-cu'i	-nai
ja'o	jalge	I conclude		
ca'e		I define		
ba'a	balvi	I expect	I experience	I remember
su'a	sucta	I generalize		I particularize
ti'e	tirna	I hear (hearsay)		
ka'u	kulnu	I know by culture		
se'o	senva	I know by internal		
za'a	zgana	I observe		
pe'i	pensi	I opine		
ru'a	sruma	I postulate		
ju'a	jufra	I state (default)		

## CONSECUTIVE DISCOURSE

cmavo	gismu	...
ku'i	karbi	however – but – in contrast
ji'a	kmina	additionally
si'a	simsa	similarly
mi'u	mintu	ditto
po'o		the only relevant case

## COMMENTARY ON WORDS

cmavo	gismu	...	-nai
va'i	valsi	in other words	in the same words
ta'u	tanru	expanding a tanru	making a tanru

## COMMENTARY ON DISCOURSE

cmavo	gismu	...	-cu'i	-nai
li'a	klina	clearly		obscurely
ba'u	banli	exaggeration	accuracy	understatement
zo'o		humorously	dully	seriously
sa'e	satci	precisely speaking		loosely speaking
to'u	tordu	in brief		in detail
do'a	dunda	generously		parsimoniously
sa'u	sampu	simply		elaborating
pa'e	pajni	justice		prejudice
je'u	jetnu	truly		falsely

## KNOWLEDGE

cmavo	gismu	...	-cu'i	-nai
ju'o	djuno	certainly	uncertain	certainly not
la'a	lakne	probably		improbably

## DISCOURSE MANAGEMENT

cmavo	gismu	...	-cu'i	-nai
ta'o	tanjo	by the way		returning to point
ra'u	ralju	chiefly	equally	incidentally
mu'a	mupli	for example	omitting	end examples
zu'u		on the one hand		on the other hand
ke'u	krefu	repeating		continuing
da'i		supposing		in fact

## MISCELLANEOUS INDICATORS

cmavo	...	-nai
ki'a	metalinguistic confusion	
na'i	metalinguistic negator	
jo'a	metalinguistic armer	
li'o	omitted text (quoted material)	
sa'a	material inserted by editor	
xu	boolean question	
pau	question premarker	rhetorical question
kau	indirect question	
pe'a	figurative language	literal language
bi'u	new information	old information
ba'e	forethought emphasis	
za'e	forethought nonce-word	
ge'e	elliptic/non-specific attitudinal	

# LOJBAN MODALS (BAI)

cmavo	...	se-	te-	ve-	xe-	gismu	definition
du'o	according to	knowing facts	knowing about	under epistemology		djuno	x <sub>1</sub> knows fact x <sub>2</sub> (du'u) about subject x <sub>3</sub> by epistemology x <sub>4</sub>
si'u	aided by	assisting	assisting in			sidju	x <sub>1</sub> helps/assists/aids object/person x <sub>2</sub> do/achieve/maintain event/activity x <sub>3</sub>
zau	approved by	approving				zanru	x <sub>1</sub> approves of/gives favor to plan/action x <sub>2</sub> (object/event)
ki'i	as a relation of	related to	with relation			ckini	x <sub>1</sub> is related to/associated with/akin to x <sub>2</sub> by relationship x <sub>3</sub>
du'i	as much as	equal to	equal in property			dunli	x <sub>1</sub> is equal/congruent to/as much as x <sub>2</sub> in property/dimension/quantity x <sub>3</sub>
cu'u	as said by	expressing	as told to	expressed in medium		cusku	x <sub>1</sub> expresses/says x <sub>2</sub> (sedu'u/text/lu'e concept) for audience x <sub>3</sub> via expressive medium x <sub>4</sub>
tu'i	associated with site	as a location of				stuzi	x <sub>1</sub> is an inherent/inalienable site/place/position/situation/spot/location of x <sub>2</sub> (object/event)
ti'u	associated with time	at the same time as	time on day	time at location		tcika	x <sub>1</sub> is the time/hour of state/event x <sub>2</sub> on day x <sub>3</sub> at location x <sub>4</sub>
di'o	at the locus of	at specific locus	at locus within range			diklo	x <sub>1</sub> is local/confined to locus x <sub>2</sub> within range x <sub>3</sub>
ji'u	based on	supporting				jicmu	x <sub>1</sub> is a basis/foundation/underlying or fundamental principle of x <sub>2</sub>
ri'a	because of cause	causal therefore	causal conditions			rinka	x <sub>1</sub> (event/state) effects/physically causes effect x <sub>2</sub> (event/state) under conditions x <sub>3</sub>
ni'i	because of logic	entails therefore	under logic system			nibli	x <sub>1</sub> logically necessitates/entails/implies action/event/state x <sub>2</sub> under rules/logic system x <sub>3</sub>
mu'i	because of motive	motive therefore	motive of person			mukti	x <sub>1</sub> (action/event/state) motivates/is a motive/incentive for action/event x <sub>2</sub> , per volition of x <sub>3</sub>
ki'u	because of reason	reason therefore				krinu	x <sub>1</sub> (event/state) is a reason/justification/explanation for/causing/permitting x <sub>2</sub> (event/state)
va'u	benefiting from	with beneficiary	goodness standard			xamgu	x <sub>1</sub> (object/event) is good/beneficial/nice for x <sub>2</sub> by standard x <sub>3</sub>
koi	bounded by	as boundary of	bordering			korbi	x <sub>1</sub> is an edge/margin/border/curb/boundary of x <sub>2</sub> next-to/bordering-on x <sub>3</sub>
ca'i	by authority of	with authority over	basis for authority			catni	x <sub>1</sub> has authority/is an official in/on/over matter/sphere/persons x <sub>2</sub> derived on basis x <sub>3</sub>
ta'i	by method	as a method for	method conditions			tadji	x <sub>1</sub> is a method/technique/approach/means for doing x <sub>2</sub> (event) under conditions x <sub>3</sub>
pu'e	by process	processing from	processing into	through stages		pruce	x <sub>1</sub> is a process with inputs x <sub>2</sub> , outputs/results x <sub>3</sub> , passing through steps/stages x <sub>4</sub>
ja'i	by rule	by rule prescribing	by rule within			javni	x <sub>1</sub> is a rule prescribing/mandating/requiring x <sub>2</sub> (event/state) within system/community x <sub>3</sub>
kai	characterizing	with property				ckaji	x <sub>1</sub> has/is characterized by property/feature/trait/aspect/dimension x <sub>2</sub> (ka)
bai	compelled by	compelling event				bapli	x <sub>1</sub> (ka) forces/compels event x <sub>2</sub> to occur
fi'e	created by	creating work	created for purpose	created from		finti	x <sub>1</sub> invents/creates/composes/authors x <sub>2</sub> for function/purpose x <sub>3</sub> from existing elements/ideas x <sub>4</sub>
de'i	dated	on the same date as	on date at location	on date by calendar		detri	x <sub>1</sub> is the date of event/state x <sub>2</sub> , at location x <sub>3</sub> , by calendar x <sub>4</sub>
ci'o	emotionally felt by	emoting	emoting about			cinmo	x <sub>1</sub> feels emotion x <sub>2</sub> (ka) about x <sub>3</sub>
mau	exceeded by	more than	more in property	more by amount		zmadu	x <sub>1</sub> exceeds/is more than x <sub>2</sub> in property/quantity x <sub>3</sub> (ka/ni) by amount/excess x <sub>4</sub>
mu'u	exemplified by	example of property	example out of set			mupli	x <sub>1</sub> is an example/sample/specimen/instance/case/illustration of common property x <sub>2</sub> of set x <sub>3</sub>
ri'i	experienced by	experiencing				lifri	x <sub>1</sub> undergoes/experiences x <sub>2</sub> (event/experience)
ra'i	from source	as an origin of				krasi	x <sub>1</sub> (site/event) is a source/start/beginning/origin of x <sub>2</sub> (object/event/process)
ka'a	gone to by	with destination	with origin	via route	by transport	klama	x <sub>1</sub> comes/goes to destination x <sub>2</sub> from origin x <sub>3</sub> via route x <sub>4</sub> using means/vehicle x <sub>5</sub>
pa'u	having component	as a part of				pagbu	x <sub>1</sub> is a part/component/piece/portion/segment of x <sub>2</sub>
pa'a	in addition to	similar to	contrasting property	similar by standard		panra	x <sub>1</sub> parallels x <sub>2</sub> differing only in property x <sub>3</sub> (ka) by standard/geometry x <sub>4</sub>
le'a	in category	as a category of	defined by quality			klesi	x <sub>1</sub> (mass/si'o) is a class/category/subgroup/subset within x <sub>2</sub> with defining property x <sub>3</sub> (ka)
ku'u	in culture	in culture of				kulnu	x <sub>1</sub> is culture of nation/ethos x <sub>2</sub> (mass)
bau	in language	in language of	language expressing			bangu	x <sub>1</sub> is a/the language/dialect used by x <sub>2</sub> to express/communicate x <sub>3</sub> (si'o/du'u, not quote)
tai	in manner	manner of				tasmi	x <sub>1</sub> is the way or manner in which activity/event x <sub>2</sub> is done/happens
ma'i	in reference frame	as a standard for	rules of standard			manri	x <sub>1</sub> is a frame of reference/standard for observing/measuring/determining x <sub>2</sub> , with/by rules x <sub>3</sub>
ci'e	in system	with system function	of system components	with synergy in		ciste	x <sub>1</sub> (mass) system interrelated by structure x <sub>2</sub> among components x <sub>3</sub> (set) displaying x <sub>4</sub> (ka)
fau	in the event of					fasnu	x <sub>1</sub> (event) is an event that happens/occurs/takes place
po'i	in the sequence	sequenced by rules	ordering items			porsi	x <sub>1</sub> is sequenced/ordered/listed by comparison/rules x <sub>2</sub> on unordered set x <sub>3</sub>
cau	lacked by	without				claxu	x <sub>1</sub> is without/lacking/free of/lacks x <sub>2</sub>
ma'e	material object	made of material	in material from			marji	x <sub>1</sub> is material/stuff/matter of type/composition including x <sub>2</sub> in shape/form x <sub>3</sub>
ci'u	on the scale	on scale measuring				ckilu	x <sub>1</sub> (si'o) is a scale of units for measuring/observing/determining x <sub>2</sub> (state)
ra'a	pertained to by	concerning				srana	x <sub>1</sub> pertains to/is germane/relevant to/concerns/is related/associated with/is about x <sub>2</sub>
pu'a	pleased by	in order to please	pleasing conditions			pluka	x <sub>1</sub> (event/state) seems pleasant to/pleases x <sub>2</sub> under conditions x <sub>3</sub>
li'e	preceded by	preceding	ordered in sequence			lidne	x <sub>1</sub> precedes/leads x <sub>2</sub> in sequence x <sub>3</sub>
la'u	quantifying	in quantity	measured on scale			klani	x <sub>1</sub> is a quantity quantified/measured/enumerated by x <sub>2</sub> (quantifier) on scale x <sub>3</sub> (si'o)
ba'i	replaced by	instead of				basti	x <sub>1</sub> replaces/substitutes for/instead of x <sub>2</sub> in circumstance x <sub>3</sub>
ka'i	represented by	on behalf of	representing in			krati	x <sub>1</sub> represents/is an agent/proxy/stands-in for x <sub>2</sub> in matter/function x <sub>3</sub>
sau	requiring	necessary for	necessarily under			sarcu	x <sub>1</sub> (abstract) is necessary/required for continuing state/process x <sub>2</sub> under conditions x <sub>3</sub>
fa'e	reverse of	in reversal of				fatne	x <sub>1</sub> is in reverse order from x <sub>2</sub>
be'i	sent by	transmitting	sent to	transmit origin	transmit via	benji	x <sub>1</sub> transfers/sends/transmits x <sub>2</sub> to receiver x <sub>3</sub> from transmitter/origin x <sub>4</sub> via means/medium x <sub>5</sub>
ti'i	suggested by	suggesting	suggested to			stidi	x <sub>1</sub> suggests/proposes/inspires idea/action x <sub>2</sub> to audience x <sub>3</sub>
ja'e	therefore result	results because				jalge	x <sub>1</sub> (action/event/state) is a result/outcome/conclusion of antecedent x <sub>2</sub> (event/state/process)
ga'a	to observer	observing	observed by means	observed under		zguna	x <sub>1</sub> observes/watches/beholds x <sub>2</sub> using senses/means x <sub>3</sub> under conditions x <sub>4</sub>
va'o	under conditions	as conditions for				vanbi	x <sub>1</sub> is part of an environment/surroundings/context/ambience of x <sub>2</sub>
ji'o	under direction of	controlling aspects	controlling event			jitro	x <sub>1</sub> has control over/harnesses/manages/directs/conducts x <sub>2</sub> in x <sub>3</sub> (activity/event/performance)
me'a	undercut by	less than	less in property	less by amount		mleca	x <sub>1</sub> is less than x <sub>2</sub> in property/quantity x <sub>3</sub> (ka/ni) by amount x <sub>4</sub>
ji'e	up to limit	as a limit of	limited in property			jimte	x <sub>1</sub> is a limit/extreme/bound/border of x <sub>2</sub> in property/domain x <sub>3</sub>
pi'o	used by	using tool	usage for purpose			pilno	x <sub>1</sub> uses/employs x <sub>2</sub> tool, apparatus, machine, agent, acting entity, material for purpose x <sub>3</sub>
gau	with active agent	as agent in doing				gasnu	x <sub>1</sub> is an agentive cause of event x <sub>2</sub>
zu'e	with actor	goalfully acting at	with goal			zukte	x <sub>1</sub> is a volitional entity employing means/taking action x <sub>2</sub> for purpose/goal x <sub>3</sub> /to end x <sub>3</sub>
me'e	with name	as a name for	as a name used by			cmene	x <sub>1</sub> (quotation) is a/the name/title/tag of x <sub>2</sub> to/used-by namer/name-user x <sub>3</sub> (person)
rai	with superlative	superlative in	at extreme	superlative among		traji	x <sub>1</sub> is superlative in property x <sub>2</sub> (ka), the x <sub>3</sub> extreme (ka) among set/range x <sub>4</sub>
do'e	elliptical/unspecified						