PROPOSAL FOR ELIMINATION OF INCORPORATED STEMS & ESTABLISHING V_R+C_A SHORTCUTS - v. 2

First revised proposal for eliminating incorporated stem and replacing them with what I am calling "concatenated" formatives. Revisions include the following: Concatenation status now shown in Slot I of the concatenated formative, not the parent. Ultimate syllabic stress now used on the concatenated formative to indicate the Formats 37-68 distinction, allowing the Slot I C_C values to indicate the w- vs. y- C_A -shortcut distinction correctly. The NEG/4 "shortcut" columns have been eliminated from the V_R slot (they would cause a potential proliferation of -w- and -y- increments and never did save any syllables anyway). The ordering of the C_A -shortcuts in the Slot II table have been changed to be more intuitive. The values - c_P - and - c_W - are no longer used in Slot I.

Ι	П	Ш	IV	V	VI	VII	VIII	IX	X *	XI
(C _C)	'V _v	C _R	(V _R)	(V _X C _S ')	(C _A)	(V _X C _S)	$(V_N C_N)$	$V_{C}^{*}/V_{K})$	(') C_B or (') C_Y	[stress]
Concatenation status indicator + V _R +C _A shortcut indicator	Version + Stem + C _A short- cut	Main Root	Function + Specification	V _x C _S affix(es) apply to stem but not to C _A If Slots IV & VI values are present then form is reversed to -C _S V _x -	Configuration + Extension + Affiliation + Perspective + Essence	V _x C _S affixes apply to stem + C A	Valence + Mood/Case-Scope or Aspect + Mood/Case-Scope or Phase + Mood/Case-Scope or Level + Mood/Case-Scope or Effect + Mood/Case-Scope	Case or Illocution + Expectation + Validation as determined by syllabic stress	Bias or Case-Scope or Mood must be preceded by a glottal-stop unless Slot VIII C N	penultimate stress = UNFRAMED Relation + Vc ultimate stress = UNFRAMED Relation + Vk antepenultimate stress
consonantal prefix	vocalic affix	cons. form	vocalic affix; presence determined by C _c in Slot I	last V _x in the series re- quires a glottal stop to indicate end of Slot	consonant form; presence determined by Cc in Slot I		Modular Slot containing a vowel-form + consonant-form	vocalic affix	or Slot IX V _c /V _K contains a glottal- stop	= FRAMED Relation + Vc

Proposed Slot Structure of a Formative

* Concatenated formatives (see discussion for Slots I and II below) label the V_C Case marker as V_F Format; also, Slot X will be empty in a concatenated formative.

NOTE: A monosyllabic formative is considered to have the equivalent of ultimate stress (i.e., it is an UNFRAMED verbal formative).

SLOT I: C_C — Concatenation-Type plus Alternate V_F of Preceding Concatenated Formative, plus V_R+C_A Shortcut Type

Slot I carries a new prefix, C_C , that serves two functions: (1) to indicate that the formative is immediately preceded by a concatenated formative (the new replacement for stem incorporation from previous versions of this document), and (2) to indicate whether certain V_R+C_A forms from Slots IV and VI have been elided (thus being instead indicated by the Slot I C_C value).

Concatenation: The incorporated stems of previous versions of the language have now been eliminated. Instead, any formative may be immediately preceded by another formative which serves the same purpose as the previous incorporated stem. The first formative of this pair of formatives shall be known as a *concatenated* formative. The second formative of the pair shall be known as a *parent* formative. The pair of formative stogether shall be termed a *concatenated* pair. (NOTE: A formative that is not part of a concatenated pair is now termed a *standalone formative*.)

The first formative of the pair, the concatenated formative, is structured as a regular formative, able to take any and all morphology as appropriate and semantically permissible for the concatenated pair as a whole (except for Slot X). The initial concatenated formative also shows one of the following eight C_C values in Slot I to indicate that it and the following formative constitute a concatenated pair. The meaning of the different C_C values is explained below the table.

	V _F = Formats 1 thru 36	V _F = Formats 37 thru 68	V _F = Formats 1 - 36 + [w-] C _A shortcut*	V _F = Formats 37 - 68 + [w-] C _A shortcut*	V _F = Formats 1 - 36 + [y-] C _A shortcut*	V _F = Formats 37 - 68 + [y-] C _A shortcut*
Type-1 Concatenation	h	h + ult. stress	hl	hl + ult. stress	hm	hm + ult. stress
Type-2 Concatenation	hw	hw + ult. stress	hr	hr + ult. stress	hn	hn + ult. stress

* See Slot II below for an explanation of the w- and y- CA shortcuts

Concatenation Type: Type-1 concatenation implies a circumstantial relationship between the concatenated formative and the parent formative (equivalent to placing the concatenated formative into a case-frame). Type-2 concatenation is derivational (i.e., lexicalizing), creating a new lexico-semantic gestalt usually requiring a different English translation. This is analogous to English forms like *polar bear* naming a new animal rather than stating a location. Likewise, English *elephant seal* establishes a new lexico-semantic gestalt rather than describing some sort of metaphorical relationship between elephants and seals.

Alternate V_F Indicator: Concatenated formatives do not use a glottal-stop in the Slot IX V_F form. Instead, the concatenated formative takes ultimate syllabic stress to indicate that the Slot IX V_F Format vowel is actually a Format 37-through-68 form but without the glottal stop.

 C_A Shortcut Indicator for Concatenated Formative: Columns 3 through 6 of the above table are used if the Slot IV V_R value is default -a- (STA/BSC/EXS) and the Slot VI C_A affix is one of eight specific C_A values shown for Slot II on the next page.

 C_A Shortcut Indicator for Parent or Standalone Formatives: If a formative is not a concatenated formative (i.e., it is a parent or standalone), then the same Slots IV/VI $a+C_A$ shortcuts are shown by a C_C value of either w- or y-, depending on the particular C_A value being elided, as shown on the next page.

Morpho-phonological Restrictions on a Concatenated Formative: Concatenated formatives do not utilize a glottal-stop in the Slot IX V_F value; instead they utilize the V_F values 1 through 36 (identical to values 37 through 68 except for the glottal-stop) and the formative takes ultimate syllabic stress. Additionally, Slot X must be empty in a concatenated formative.

Concatenation "Chain": More than two formatives may be concatenated to form the equivalent of phrasal concatenation or a "concatenation chain". The initial concatenated formative of the chain indicates the Concatenation Type (1 or 2) for the entire chain; all subsequent concatenated formatives of the chain take one of the Type-1 C_C value from the table above. The final parent formative of the chain has either empty Slot I or takes w- or y- in Slot I if a C_A shortcut is present (see Slot II on next page).

Orthography: In addition to the presence of a C_c affix in Slot I of any parent formative, the two (or more) formatives will be joined by a hyphen in the language's romanization scheme as a simple mnemonic indicator that they are a concatenated pair or concatenated chain.

SLOT II: V_V — Stem and Version (plus optional Slot IV+VI a+C_A Shortcut)

Slot II contains a vocalic affix, V_V , showing the formative's Stem and Version. Additionally, if Slot I contains a w- or y-, or one of the values from the C_C table on the previous page (h-, hw-, hl-, hr-, hm-), then the V_V value also indicates a Slot IV V_R value of default -a- plus one of eight Slot VI C_A values. Additionally, the actual Slot IV/VI $a+C_A$ forms will be elided (i.e., missing), thus shortening the formative by one syllable.

If C_C value in Slot I is	then
[zero/empty] or h or h w	[no C _A shortcut present]
w or hl or hr	if V_V = Vowel-Seq. Series 1, then C_A = -l- (UPX/DEL/CSL/M/NRM) if V_V = Vowel-Seq. Series 2, then C_A = -r- (UPX/DEL/CSL/P/NRM) if V_V = Vowel-Seq. Series 3, then C_A = -v- (UPX/DEL/CSL/N/NRM) if V_V = Vowel-Seq. Series 4, then C_A = -tļ- (UPX/DEL/CSL/P/RPV)
y or hm or hn	

Slot II V_V if Slot I is [zero] /h / hw

Stem	Version	$\mathbf{V}_{\mathbf{V}}$
Stem 1	PRC	(a)
	СРТ	ä
Stem 2	PRC	e
	СРТ	i
Stem 3	PRC	u
	СРТ	ü
Stem 0*	PRC	0
	СРТ	ö

Slot II V_V if Slot I is w/hl/hr or y/hm/hn

Stem	Version	C _c =w/hl/hr	C _c =y/hm/hn						
		[default]	PRX	Р	RPV	N	Α	P / RPV	PRX / RPV
Stem 1	PRC	(a)		ai		ia / oä		ao	
	СРТ	ä		au		iä / uä		ae	
Stem 2	PRC	e		ei		ie / oë		ea	
	СРТ	i		eu		ië / uë		eo	
Stem 3	PRC	u		ui		ua / aö		oa	
	СРТ	ü		iu		ue / eö		öa	
Stem 0	PRC	0		oi		uo / io		oe	
	СРТ	ö		ou		uö / iö		öe	

NOTE: I have considered that the first four Vowel-Sequence series of vowels is available for use (e.g., for various affix shortcuts) in Slot II in cases where Slot I is zero, **h**-, or **hw**-. However, in my opinion, it would be too confusing to have to memorize/remember two different interpretations for the very same vowel-forms, all depending on the value of Slot I.

SLOT IV: V_R — Function, Specification, and Context

Function of	Specification	Context						
Main Root	of Main Root	EXS	FNC	RPS	AMG			
	BSC	а	ai	ia	ao			
бта	СТЕ	ä	au	iä	ae			
SIA	CSV	e	ei	ie	ea			
	OBJ	i *	eu	ië	eo			
	BSC	u	ui	ua	oa			
DVN	СТЕ	ü	iu	ue	öa			
DIN	CSV	0	oi	uo	oe			
	OBJ	ö	ou	uö	öe			

Slot IV V_R values

Due to the elimination of incorporated stems, there is no longer any need for the V_R Slot to carry a glottal stop to show Version or Function, etc.

NOTE: If the C_C value in Slot I indicates a V_R+C_A shortcut is operating, then Slot IV and Slot VI (containing C_A) will be empty.

SLOT V: C_SV_X / V_XC_S Affixes Applied to Stem without Scope Over the Slot VI C_A complex

This optional slot holds one or more standard $-V_xC_s$ affixes which apply to the stem only and do not have scope over the following Slot VI C_A complex or any other slots. Note that the fourth and fifth column of V_x values from previous versions has been removed, since incorporated stems have been eliminated (the fourth and fifth column of V_x values will likewise be removed from Slot VII V_xC_s affixes).

NOTE: If a Slot VI C_A complex is present, any Slot V affixes are shown in reversed form: $-C_SV_X$ -; however, if the Slots IV V_R and Slot VI C_A complex have been elided as indicated in Slot I (see Secs. 3.1 and 3.2 above), then any Slot V affixes are shown in standard form $-V_XC_S$ -.

degree	Type-1	Type-2	Type-3	Type 1: circumstantial Type 2: derivational
1	a	ai	ia / oä	
2	ä	au	iä / uä	Type 3: applies to previous $C_s v_x / v_x C_s$ affix only (or the following affix if it is the first in the slot).
3	e	ei	ie / oë	Degree 0: unspecified degree; refers to the affix's general semantic concept as a whole.
4	ë	eu	ië / uë	C_A stacking : The specialized - V _x value, -üä, is used to indicate that the preceding C _s - consonant-form is to be interpreted
5	i	ëi	ëu	as a C _A complex having scope over (i.e., "stacked" upon) the Slot IX C _A complex stem of the main stem. This specialized
6	ö	ou	uö / iö	C _A stacking affix may also be placed in either Slot V or Slot VII.
7	0	oi	uo / io	
8	ü	iu	ue / eö	
9	u	ui	ua / aö	
0	üa	üe	üo	

Glottal Stop To Indicate the End of Slot V: The last $-C_SV_{X^-}$ or $-V_XC_{S^-}$ affix in Slot V must carry a glottal stop to show where Slot V ends and Slot VI begins. See Sec. 1.7 (page 4) on how to add this glottal stop to the affix. For reversed $-C_SV_{X^-}$ forms, this glottal stop will often merge with the following Slot VI C_A complex as per the rules in Sec. 3.9.1 of version 0.16 of the Design Document.

NOTE: The Concatenative Adjunct from Sec. 4.6 of version 0.16 of the Design Document will be renamed the "Phrasal Adjunct" in order to avoid confusion with the new Concatenation process described in this proposal.

ALSO: In forthcoming v.0.17 of the Design Document, the two series of Spatio-Temporal Cases and the two series of Relational Cases will be swapped (so that the former will take Vowel-Sequence Series 7 & 8 vowels, while the latter will take Series 5 & 6 vowels). This will hopefully allow more commonly used V_F format slots in concatenated formatives to be one syllable in length rather than two.