EXPANSION OF CONFIGURATION WITHIN THE C_A COMPLEX — v.0.3.1 SEVEN OPTIONS

OPTION 1: The Full C_A complex; with all twenty configurations, plus Context + Essence. The downside of this option is the large number of allomorphic substitutions necessary and the fact that there are 15,360 forms, twice the number as Options 2, 3, or 4.

AFFILIATION		CONFIGURATION						xtension	Perspective =		Context + Essence				
		Membership	Structure	Similarity						umber of Sets or ature of the Set					
CSL	[zero] (I)	UNIPLEX	UXS Specific		[zero]		DEL	[zero]	М	[zero]		NRM	RPV		
ASO	l (tļ)		UXP Potential	mţ			PRX	s/z	Р	t / d (ļt)	EXS	[zero]	y (ļy)		
VAR	ř			DPS Similar	DPD	DPF	ICP	f/v (fţ)	N	p / b (ļp)	FNC	1 (nļ)	w (ļw)		
COA	r		!		Dissim.	Fuzzy	ATV	š/ž	Α	k / g (ļk)	RPS	r (x)	ř (xx)		
		DUPLEX	SEP Separate	ţ	ģ	nn	GRA	ss / zz			AMG	h / rr * (lx)	hw / řř * (rx)		
			CND Connected	f	V	mm	DPL	šš / žž	ts	$(s) \rightarrow c(c)$ $t\check{s}(\check{s})$	→ č(č)	$dz(z) \rightarrow \dot{z}(\dot{z})$	$d\check{z}(\check{z}) \rightarrow j(j)$		
			FSD Fused	ţţ	ģģ	ňň			combinations above, the following allomorphic substitutions are						
				MPS Similar	MPD Dissim.	MPF Fuzzy	required due to the default combination being phonotactically impermissible:								
		MULTIPLEX	SEP Separate	t	d	n	ģž(ž)[c	$I/b/g/\emptyset] \rightarrow \check{c}(\check{c})[$	d/b/g	$(\check{c})\check{c}y \rightarrow (\check{z})$)žg	$(\check{n})\check{n}k \rightarrow (n)ng$	řr = šč		
			CND Connected	p	b	m	$ dz(z)[d/b/g/\emptyset] \rightarrow \dot{z}(\dot{z})[t/p/k/v] $								
			FSD Fused	k	g	ň	ddž(ž)	$[d/b/g/\emptyset] \rightarrow j(j)$	[t/p/k	/v] (j)jy → (ž))žd (ň)ňy → (n)nd				
or pho $ tt[t/p/k] dd[d/b, tf[t/p/k] dv(b/d, ts(s) \rightarrow tts(s) \rightarrow tts(s)[t$	llowing allominetically awking allominetically awking k → t [d/b/g] /g] → t [d/b/g] ·] → t [d/b/g] /g) → t [t/p/k] ·s [d/b/g] ·s [d/b/g] ·s [t] [t/b/g/v] /p/k/Ø] → (z)z /p/k/Ø] → (ž)ž	•	Use - h - and - hw -	after	pendent on the pr voiceless stops an - řř - (or - h - and - h v	d affrica	tes - p -, - t -, - k -, - c	•							

OPTION 2: Eliminate Essence from the C_A complex; instead, RPV Essence will be shown by syllabic stress-shift (penultimate \rightarrow antepenultimate, ultimate \rightarrow pre-antepenultimate). This chart is similar to Option 1 except for the missing Essence values, 6 fewer allomorphic substitutions, and no specialized rules for showing AMG Context.

AFF	LIATION		CONFIGURA					ERSPECTIVE							
		Membership	Structure	9	Similarity					umber of Sets or ature of the Set					
CSL	[zero] (1)	UNIPLEX	UXS Specific [zero]				DEL	[zero]	М	[zero]	EXS	FNC	RPS	AMG	
ASO	1 (tļ)		UXP Potential	mţ			PRX	s/z	Р	t / d (ļt)	[zero]	1 (nļ)	r (x)	w/y (ļw)	
VAR	ř			DPS	DPD	DPF	ICP	f/v (fţ)	N	N					
COA	r			Similar Dissim.		Fuzzy	ATV	š/ž	Α	k / g (ļk)		Allomorphic Substitutions:			
		DUPLEX	SEP Separate	ţ	ģ	nn	GRA	ss / zz			- //*\	1//>:	17/71	/×/×/	
			CND Connected	f	v	mm	DPL	šš / žž		$ts(s) \rightarrow c(c)$	$ \check{s}(\check{s}) \to \check{c}(\check{c}) \qquad dz(z) \to \dot{z}(\dot{z}) $		z) dz(z)	dž(ž) → j(j)	
			FSD Fused	ţţ	фф	ňň	ţţ[t/p/	/k] → ţ[d/b/g]	- t	$tf[t/p/k] \rightarrow nt[d/b/c]$	g] $(n)np \rightarrow (m)mb$		nns($nns(s) \rightarrow nz(z)$	
				MPS	MPD MPF		dd[d/	b/g] $\rightarrow d[t/p/k]$	($dv[d/b/g] \rightarrow nt[t/p]$	/k] (ř	ń)ňk → (n)ng	nnš($nn\check{s}(\check{s}) \rightarrow n\check{z}(\check{z})$	
				Similar Dissim. Fuzzy			ţf[t/p/	$/k] \rightarrow f[d/b/g]$	k	$bv[d/b/g] \rightarrow pt[t/p]$	$/b/g] \rightarrow pt[t/p/k]$ (n)nf \rightarrow (m)			$mms(s) \rightarrow mz(z)$	
		MULTIPLEX	SEP Separate	t	d	n		$d/g) \rightarrow v[t/p/k]$	8	$gv[d/b/g] \rightarrow kt[t/p/$	•	r = řř		$S(\check{s}) \to m\check{z}(\check{z})$	
			CND Connected	p	b	m		→ s[d/b/g] → š(š)[d/b/g/v]		· ·		(c)[d/b/g/v] (č)[d/b/g/v]		s) → ňz(z) š) →ňž(ž)	
			FSD Fused	k	g	ň		$t/p/k/\emptyset] \rightarrow (z)z[t$ $t/p/k/\emptyset] \rightarrow (\check{z})\check{z}[t/y)$				ż(ż)[t/p/k/v] j(j)[t/p/k/v]			

OPTION 3: Eliminate Context from the C_A complex and add a V_C/V_K Distinction; Context will instead be shown by the four syllabic stress patterns and Slot XIII's status as showing Case or Illocution+Sanction will be determined by this new V_C/V_K Distinction in the C_A complex. The chart for Option 3 is identical to the chart for Option 2 except that the latter's four Context values instead represent the 2-by-2 grid of Essence plus V_C/V_K Distinction.

OPTION 4: Eliminate DUPLEX forms from the C_A complex; instead, all pairs, couples, and 2-member sets will use MULTIPLEX forms and may **optionally** take the SDP affix if necessary to specify the exact structure of a duplex/binary set (the nine degrees of the SDP affix will be redesigned to correspond to the Configuration sub-categories of Structure & Similarity).

While still requiring specialized rules for showing AMG Context, there are far fewer allomorphic substitutions. However, this option requires the re-introduction of /ç/ as a phoneme in the language.

AFFI	LIATION		CC	NFIGURAT	EXTENSION		PERSPECTIVE		CONTEXT + ES		SSENCE			
		LINUDLEY	UNIPLEX		IFIC UXS							NRM	RPV	
CSL	[zero] (1)	UNIPLEX			UXP	ţ	DEL	[zero]	М	[zero]	EXS	[zero]	y (ļy)	
ASO	1 (tļ)		SEP	Similar	SEP/MPS	t	PRX	s	Р	t (ļt)	FNC	1 (nļ)	w (ļw)	
VAR	ř	1	Separate	Dissimilar	SEP/MPD	n	ICP	f	N	k (ļk)	RPS	r (mļ)	ř (ňļ)	
COA	r	1		Fuzzy	SEP/MPF	s (ç)	ATV	š	Α	p (ļp)	AMG	h / rr * (lx)	hw / řř * (rx)	
		MULTI-		Similar	CND/MPS	p	GRA	ss (x)						
		PLEX	CND Connected	Dissimilar	CND/MPD	m	DPL	šš (xx)		Allo	omorphic Substitutions:			
				Fuzzy	CND/MPF	š (çç)		ts(s) → c(d	c)	sss → ż	np → l	tf → v	$(c)cy \rightarrow z(z)g$	
		FSD Fused		Similar	FSD/MPS	k		tš(š) → č(č	Š)	$s\check{s}(\check{s}) \rightarrow \check{z}(\check{z})$	ňk → g	ţf → ḍ	$(\check{c})\check{c}y \rightarrow \check{z}(\check{z})g$	
				Dissimilar	FSD/MPD	ň		$ \xi s(s) \rightarrow \xi \xi $		$\check{s}s(s) \rightarrow z(z)$	$nf \rightarrow d$		$\dot{z}y \rightarrow zd$	
				Fuzzy	FSD/MPF f			$\xi \dot{s}(\dot{s}) \rightarrow \dot{q}\dot{q}$	ššš → j		ňy → r	ın řr = gz	jy → žd	

^{*} AMG Context values are dependent on the preceding consonant:

- Use -h- and -hw- after voiceless stops and affricates -p-, -t-, -k-, -c-, and -č-
- Elsewhere use -rr- and -řř- (or -h- and -hw- may be used if not phonetically awkward).

OPTION 5: Eliminate both DUPLEX forms and Essence from the C_A complex; a combination of Options 2 and 4. This would be the simplest option of all, the advantage being severe streamlining and simplification of the C_A complex. Duplex configurations instead shown via a redesigned SDP affix; Essence shown by 2-say syllabic stress-shift. Only 3840 forms. This option again requires the re-introduction of /c as a phoneme in the language.

AFFI	LIATION		CC	NFIGURAT	EXTENSION		PERSPECTIVE		CONTEXT					
		LIMIDITY	UNIPLEX		SPECIFIC UXS									
CSL	[zero] (1)	UNIPLEX			UXP	ţ	DEL	[zero]	М	[zero]	EXS	FNC	RPS	AMG
ASO	1 (tļ)		SEP	Similar	SEP/MPS	t	PRX	S	Р	t (ļt)	[zero]	1 (nļ)	r (nļ)	w/y (ļw)
VAR	ř		Separate	Dissimilar	SEP/MPD	n	ICP	f	N	k (ļk)	nn z(z)g ž(ž)g zd žd bz			
COA	r		CND Connected	Fuzzy	SEP/MPF	s (ç)	ATV	š	Α	p (ļp)				
		MULTI-		Similar	CND/MPS	p	GRA	ss (x)			-			
		PLEX		Dissimilar	CND/MPD	m	DPL	šš (xx)		Allo	omorphic Substitutions:			
				Fuzzy	CND/MPF	š (çç)			=	$ts(s) \rightarrow c(c)$	sss → ż	np	→ b	tf → v
				Similar	FSD/MPS	k				$t\check{s}(\check{s}) \rightarrow \check{c}(\check{c})$	$s\check{s}(\check{s}) \rightarrow \check{z}$	-	→ g	ţf → ḍ
		FSD Fused		Dissimilar	FSD/MPD	ň				$ts(s) \rightarrow tt$	$\check{s}s(s) \rightarrow z$	(z) nf	→ d	řr = řř
			, useu	Fuzzy	FSD/MPF	f				ţš(š) → <mark>d</mark> d	ššš → j			

OPTION 6: Eliminate DUPLEX forms and Context from the C_A complex, and add a V_C/V_K Distinction; a combination of Options 3 and 4. Same chart as Option 5 above except that the four Context values would instead represent the 2-by-2 grid of Essence plus V_C/V_K Distinction. 3840 forms.

OPTION 7: Reduce the number of DUPLEX forms in the C_A complex to three; use optional SDP affix (to be redesigned) if necessary to specify the Similarity parameter of a Duplex pair.

AFFI	LIATION	CONFIGURATION						ension		Perspective =		Context + Essence			
		Membership	Structure		Similarity	7				umber of Sets or lature of the Set					
CSL	[zero] (I)	UNIPLEX	UXS Specific	[zero] s (fs)			DEL	[zero]	М	[zero]		NRM	RPV		
ASO	l (tļ)		UXP Potential				PRX	s/z	Р	t / d (ļt)	EXS	[zero]	y (ļy)		
VAR	ř			DPS		DPF	ICP	f/v	N	p / b (ļp)	FNC	1 (nļ)	w (ļw)		
COA	r			Similar		Fuzzy	ATV	š/ž	Α	k / g (ļk)	RPS	r (x)	ř (xx)		
		DUPLEX	SEP Separate	nn	[use t	to-be-	GRA	ţ/ḍ			AMG	h / rr * (lx)	hw/řř*(lxw)		
			CND Connected	mm		signed	DPL	ç/zz							
			FSD Fused	ňň	SDP	affix]	ts → c	nns → n	<u></u>	nnf → vv	$nf \rightarrow v$	cy → zg	tţ → ḍ		
				MPS	MPD N	MPF	tš → <mark>č</mark>	nnš → <mark>nž</mark>		mmf → mv	np →mb	_	dģ → <mark>ģģ</mark>		
				Similar	Dissim.	Fuzzy	dz → ż	mms →	mz	ňňf → ňv	ňk → ng	$\dot{z}y \rightarrow (z)zd$	$r\check{r} \rightarrow sc$		
		MULTIPLEX	SEP Separate	t	d	n	dž → j	dž → j mmš → i		mž nnţ → n <mark>ḍ</mark>		jy → <u>žd</u>	řr → šč		
			CND Connected	p	b	m	sš → ž	ňňs → ň:	z mmţ → mḍ		mmç → f	ff ňy → nd			
			FSD Fused	k	g ň		sç → z	ňňš → ň	ž ňňţ → ň¢		ňňç → <u>žž</u>	çy → <mark>çç</mark>			

^{*} AMG Context values are dependent on the preceding consonant:

- Use -h- and -hw- after voiceless stops and affricates -p-, -t-, -k-, -c-, and -č-
- Elsewhere use -rr- and -řř- (or -h- and -hw- may be used if not phonetically awkward or impermissible).

THE FOLLOWING NOTES APPLY TO ALL THE VARIOUS CHARTS ABOVE:

- 1. Values shown in parentheses are the stand-alone forms (when all other sub-category values are zero).
- 2. Nasal configurations take **voiceless** Extension and Perspective values as a default (i.e., before the application of allomorphic substitutions), e.g., MPF/CND/ICP = **mf** (not **mv**), MPF/SEP/PRX = **ns** (not **nz**). All other Configuration + Extension + Perspective combinations (except allomorphic substitutes) are either voiceless or voiced throughout.
- 3. The stand-alone Perspective values (**ļt**, **ļp**, **ļk**) are also used if Configuration and Extension are both zero but the Context value is non-zero (so that the Perspective values are not mistaken for being Configuration values).
- 4. Gemination is not a productive feature; resulting geminate pairs (other than those shown in the chart) consist of separate morphological elements.

SPECIAL NOTE Re OPTIONS 2, 3, 5, and 6

When evaluating the above options and deciding one's preference for the new language, I think it is important to keep one thing in mind: As of the current version of the Morpho-Phonological Design (v.0.9.3.1), the 2-way syllabic stress-shift (penultimate \rightarrow antepenultimate, ultimate \rightarrow preantepenultimate) is used to eliminate the initial Slot I+Slot II syllable from complex formatives (in those cases where the the Slot III C_R consonant-form can appear in word-initial position). This ability to make many complex formatives a full syllable shorter will be lost if we go with Options 2, 3, 5, or 6. It will not be lost with Options 1, 4 or 7.