

A comparison of four Polynesian and two Slavic segment inventories

- (1) Hawaiian 5 contrastive vowels (with phonetic variation)

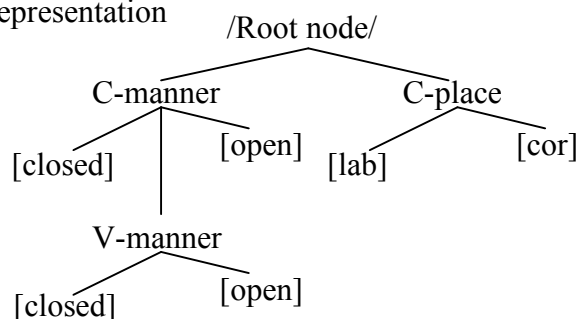
	Front	Central	Back
High	[i]		[u]
Mid	[e]~[ɛ]		[o]
Low		[a]	

Note: shaded cells indicate lip rounding

- (2) Hawaiian 8 contrastive consonants (with phonetic variation)

	Bilabial	Dento-alveolar	Velar	Glottal
Stop	[p]		[k]~[t]	[ʔ]
Fricative				[h]
Nasal stop	[m]	[n]		
Lateral		[l]		
Glide	[w]~[v]			

- (3) Hawaiian PSM representation



- (4) Hawaiian PSM specifications for 13 contrastive segments

			C-place		C-manner		V-manner	
			[lab]	[cor]	[closed]	[open]	[closed]	[open]
Mannerless	/w/	[w]~[v]	✓					
	/l/	[l]~[r]		✓				
Stop	/ʔ/	[ʔ]			✓			
	/p/	[p]	✓		✓			
	/t/	[k]~[t]		✓	✓			
Stop+	/n/	[n]			✓	✓		
	/m/	[m]	✓		✓	✓		
Continuant	/h/	[h]				✓		
High	/i/	[i]					✓	
	/u/	[u]	✓				✓	
High+	/e/	[e]~[ɛ]					✓	✓
	/o/	[o]	✓				✓	✓
Low	/a/	[a]						✓

(5) Palauan 5 contrastive vowels (without phonetic variation)

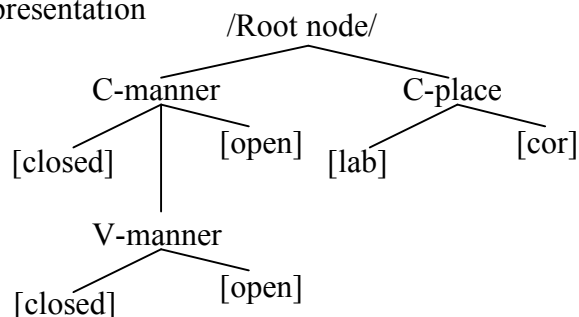
	Front	Central	Back
High	[i]		[u]
Mid	[ɛ]		[o]
Low		[a]	

Note: shading indicates lip rounding

(6) Palauan 11 contrastive consonants (with phonetic variation)

	Bilabial	Dento-alveolar	Velar	Glottal
Stop	[b]~[p]	[t]~[tʰ]	[k]~[kʰ]~[g]	[ʔ]
Fric~stop		[ð]~[θ]~[d]~[t]		
Fric		[s]		
Nas	[m]		[ŋ]~[n]	
Lat		[l]		
Rhot		[r](~[r])		
Glides	[w]			

(7) Palauan PSM representation



(8) Palauan PSM specifications for 16 contrastive segments

			C-place		C-manner		V-manner	
			[lab]	[cor]	[closed]	[open]	[closed]	[open]
Featureless	//	[ʔ]~[ə]						
Mannerless	/w/	[w]	✓					
	/ð/	[ð]~[d]~[t]~[θ]		✓				
Stop	/k/	[k]~[kʰ]~[g]			✓			
	/p/	[p]~[b]	✓		✓			
	/t/	[t]~[tʰ]		✓	✓			
Stop+Continuant	/ŋ/	[ŋ]~[n]			✓	✓		
	/m/	[m]	✓		✓	✓		
Continuant	/s/	[s]				✓		
Stop+High	/l/	[l]			✓		✓	
Continuant+High	/r/	[r]				✓	✓	
High	/i/	[i]					✓	
	/u/	[u]	✓				✓	
High+Low	/ɛ/	[ɛ]					✓	✓
	/o/	[o]	✓				✓	✓
Low	/a/	[a]						✓

(9) Older Rapanui 5 contrastive vowels (without phonetic variation)

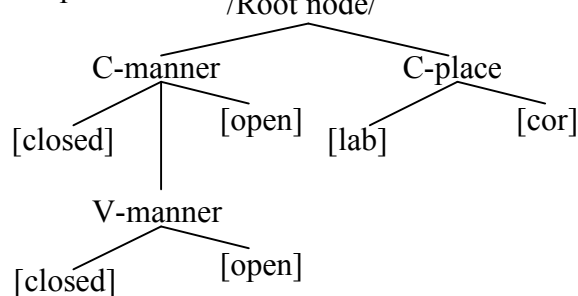
	Front	Central	Back
High	[i]		[u]
Mid	[e]		[o]
Low		[a]	

Note: shaded cells indicate lip rounding

(10) Older Rapanui 10 native contrastive consonants (without phonetic variation)

	Bilabial	Dento-alveolar	Velar	Glottal
Stop	[p]	[t]	[k]	[ʔ]
Fric	[β]			[h]
Nas	[m]	[n]	[ŋ]	
Tap		[r]		

(11) Older Rapanui PSM representation /Root node/



(12) Older Rapanui PSM specifications for 15 contrastive segments (native)

			C-place		C-manner		V-manner	
			[lab]	[cor]	[closed]	[open]	[closed]	[open]
Featureless	/ʔ/	[ʔ]						
Mannerless	/β/	[β]	✓					
	/r/	[r]		✓				
Stop	/k/	[k]			✓			
	/p/	[p]	✓		✓			
	/t/	[t]		✓	✓			
Stop+Continuant	/ŋ/	[ŋ]			✓	✓		
	/m/	[m]	✓		✓	✓		
	/n/	[n]		✓	✓	✓		
Continuant	/h/	[h]				✓		
High	/e/	[e]					✓	
	/u/	[u]	✓				✓	
	/i/	[i]		✓			✓	
Low	/a/	[a]						✓
	/o/	[o]	✓					✓

- (13) General Maori 5 contrastive vowels (with phonetic variation)

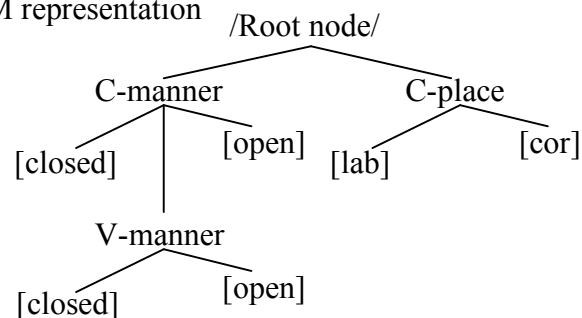
	Front	Central		Back
High		[i]~[ɪ]	[ʉ]~[ʊ]~[u]~[ɤ]~[ɯ]	
Mid	[ɛ]~[e]			[ɔ]~[ɜ]
Low		[ɑ]~[ɜ]~[ɐ]~[ɒ]		

Note: shaded cells indicate lip rounding

- (14) General Maori 10 contrastive consonants (with phonetic variation)

	Bilabial	Dento-alveolar	Velar	Glottal
Stop	[p]~[p ^h]	[t]~[t ^h]	[k]~[k ^h]	
Fric	[f]~[ɸ]~[ɱ]			[h]
Nas	[m]	[n]	[ŋ]	
Tap		[ɾ]		
Glide	[w]			

- (15) General Maori PSM representation



- (16) General Maori PSM specifications for 15 contrastive segments

			C-place		C-manner		V-manner	
			[lab]	[cor]	[closed]	[open]	[closed]	[open]
Mannerless	/w/	[w]	✓					
	/r/	[r]		✓				
Stop	/k/	[k]~[k ^h]			✓			
	/p/	[p]~[p ^h]	✓		✓			
	/t/	[t]~[t ^h]		✓	✓			
Stop+ Continuant	/ŋ/	[ŋ]			✓	✓		
	/m/	[m]	✓		✓	✓		
	/n/	[n]		✓	✓	✓		
Continuant	/h/	[h]				✓		
	/f/	[f]~[ɸ]~[ɱ]	✓			✓		
High	/i/	[i]~[ɪ]					✓	
	/ʉ/	[ʉ]~[ʊ]~[u]~[ɤ]~[ɯ]	✓				✓	
	/ɛ/	[ɛ]~[e]		✓			✓	
Low	/ɑ/	[ɑ]~[ɜ]~[ɐ]~[ɒ]						✓
	/ɔ/	[ɔ]~[ɜ]	✓					✓

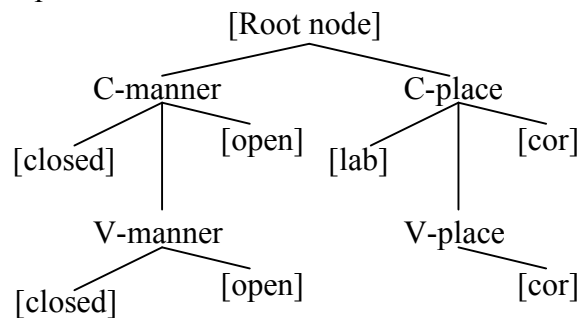
- (17) Serbian 5 contrastive vowels (without phonetic variation)

	Front	Central	Back
High	[i]		[u]
Mid lax	[ɛ]		[ɔ]
Low		[a]	

- (18) Serbian 24 contrastive consonants (without phonetic variation)

	Upper lip		Dental		Alveolar		Post-alveolar				Velar	
	Lower lip				Laminal		Apical		Plain	Voiced	Dorsal	
	Plain	Voiced	Plain	Voiced	Plain	Voiced	Plain	Voiced			Plain	Voiced
Stop	[p]	[b]			[t̚]	[d̚]					[k]	[g]
Affricate					[t̚s̚]		[t̚ʃ̚]	[d̚ʒ̚]	[t̚ʃ̚ ^w]	[d̚ʒ̚ ^w]		
Fricative			[f]		[s̚]	[z̚]			[ʃ̚]	[ʒ̚]	[x]	
Nasal		[m]				[n]		[ɲ]				
Lateral						[l]		[ɭ]				
Rhotic						[r]						
Glide				[v]								

- (19) Serbian PSM representation



- (20) Serbian PSM specifications for 21/31 contrastive segments (ignoring nasals and laryngeals)

			C-place		V-place	C-manner		V-manner	
			[lab]	[cor]	[cor]	[closed]	[open]	[closed]	[open]
Mannerless	/v/	[v]	✓						
	/T̚/	[t̚]		✓					
	/β/				✓				
	/ç/	[t̚ʃ̚]		✓	✓				
Stop	/k/	[k]				✓			
	/p/	[p]	✓			✓			
	/t̚/	[t̚s̚]		✓		✓			
	/c/	[t̚ʃ̚ ^w]			✓	✓			
Continuant	/x/	[x]					✓		
	/f/	[f]	✓				✓		
	/s̚/	[s̚]		✓			✓		
	/ʃ̚/	[ʃ̚]			✓		✓		
Stop+High	/l/	[ɭ]				✓		✓	
	/ɭ/	[ɭ]			✓	✓		✓	
Continuant+High	/r/	[r]					✓	✓	
High	/ɔ/	[ɔ]						✓	
	/u/	[u]	✓					✓	
	/i/ _{front}	[i]		✓				✓	
	/ɛ/	[ɛ]			✓			✓	
	/i/ _{pal}	[i]		✓	✓			✓	
Low	/a/	[a]							✓

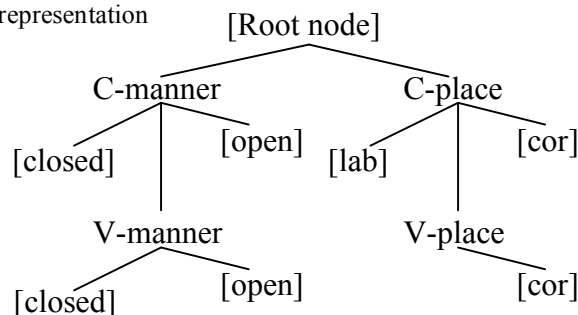
(21) Russian 5 contrastive vowels (with some phonetic variation)

	Front	Central	Back
High		[i]~[i]	[u]~[u]
Mid	[e]		[o]
Low		[a]~[ʌ]~[ə]	

(22) Russian 31 contrastive consonants (with some phonetic variation)

Primary	Labial		Alveolar		Post-alveolar		Velar
Secondary	Palatal	Velar	Palatal	Velar	Palatal	Velar	Velar
Description	Soft	Hard	Soft	Hard	Soft	Hard	Hard
Stop	[pʲ]	[pʲ]~[pʲ]	[tʲ]	[tʲ]~[tʲ]			[k]~[c]
	[bʲ]	[bʲ]~[bʲ]	[dʲ]	[dʲ]~[dʲ]			[g]~[ɟ]
Affricate				[tsʲ]	[tʃʲ]		
Fricative	[fʲ]	[fʲ]~[fʲ]	[sʲ]	[sʲ]~[sʲ]		[ʃʲ]	[x]~[ç]
	[vʲ]	[vʲ]~[vʲ]	[zʲ]	[zʲ]~[zʲ]		[ʒʲ]	
Nasal	[mʲ]	[mʲ]~[mʲ]	[nʲ]	[nʲ]~[nʲ]			
Lateral			[lʲ]	[lʲ]~[lʲ]			
Trill			[rʲ]	[rʲ]~[rʲ]			

(23) Russian PSM representation



(24) Russian PSM specifications for 25/37 (native) contrastive segments (ignoring nasals and laryngeals)

			C-place		V-place	C-manner		V-manner	
			[lab]	[cor]	[cor]	[closed]	[open]	[closed]	[open]
Mannerless	/v/	[vʲ]~[vʲ]	✓						
	/vʲ/	[vʲ]	✓		✓				
	/T/	[tsʲ]		✓					
	/β/				✓				
Stop	/k/	[k]~[c]				✓			
	/kʲ/	[tʃʲ]			✓	✓			
	/p/	[pʲ]~[pʲ]	✓			✓			
	/pʲ/	[pʲ]	✓		✓	✓			
	/t/	[tʲ]~[tʲ]		✓		✓			
	/tʲ/	[tʲ]		✓	✓	✓			
Continuant	/x/	[x]~[ç]					✓		
	/xʲ/	[ʃʲ]			✓		✓		
	/f/	[fʲ]~[fʲ]	✓				✓		
	/fʲ/	[fʲ]	✓		✓		✓		
	/s/	[sʲ]~[sʲ]		✓			✓		
	/sʲ/	[sʲ]		✓	✓		✓		
Stop+High	/l/	[lʲ]~[lʲ]				✓		✓	
	/lʲ/	[lʲ]			✓	✓		✓	
Continuant+High	/r/	[rʲ]~[rʲ]					✓	✓	
	/rʲ/	[rʲ]			✓		✓	✓	
High	/i/	[i]~[i]						✓	
	/u/	[u]~[u]	✓					✓	
	/e/	[e]			✓			✓	
High+Low	/o/	[o]						✓	✓
Low	/a/	[a]~[ʌ]~[ə]							✓