

The metrical parse is guided by gradient phonetics

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Supplementary materials

Appendix A: Inserts

To allow for the log transformation, unattested word onsets were assigned a count of 1.

<i>Status</i>	<i>Insert</i>	<i>Onset frequency</i>	<i>C₁ offset frequency</i>	<i>Sonority slope</i>	
singleton	b	-3.11	-5.92	6	
	d	-2.84	-2.99	6	
	f	-3.44	-5.61	7	
	g	-4.13	-5.79	6	
	k	-2.68	-3.67	8	
	p	-3.08	-4.81	8	
	s	-2.91	-3.37	7	
	ʃ	-4.52	-5.27	7	
	t	-3.53	-3.33	8	
	v	-4.24	-4.70	5	
	z	-6.00	-2.94	5	
	θ	-5.54	-6.06	7	
	attested	bl	-5.12	-5.92	3
		bɹ	-4.71	-5.92	4
bw		-9.41	-5.92	5	
dɹ		-5.35	-2.99	4	
dw		-7.66	-2.99	5	
fl		-4.96	-5.61	4	
fɹ		-5.09	-5.61	5	
gl		-5.67	-5.79	3	
gɹ		-4.62	-5.79	4	
kɹ		-4.62	-3.67	6	
kw		-5.40	-3.67	7	
pl		-5.21	-4.81	5	
pɹ		-3.84	-4.81	6	
sk		-4.90	-3.37	-1	
sl		-5.34	-3.37	4	

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<i>Status</i>	<i>Insert</i>	<i>Onset frequency</i>	<i>C₁ offset frequency</i>	<i>Sonority slope</i>	
attested	sm	-6.14	-3.37	3	
	sn	-5.79	-3.37	3	
	sp	-4.85	-3.37	-1	
	st	-4.25	-3.37	-1	
	ʃn	-8.60	-5.27	3	
	ʃɪ	-6.89	-5.27	5	
	tl	-10.11	-3.33	5	
	tɪ	-4.44	-3.33	6	
	tw	-6.70	-3.33	7	
	vl	-10.11	-4.70	2	
	vɪ	-10.11	-4.70	3	
	zl	-9.70	-2.94	2	
	θɪ	-6.43	-6.06	5	
	unattested	bn	-10.80	-5.92	2
		dl	-10.80	-2.99	3
dm		-10.80	-2.99	2	
fm		-10.80	-5.61	3	
gm		-10.80	-5.79	2	
gn		-10.80	-5.79	2	
kn		-10.80	-3.67	4	
lb		-10.80	-2.87	-3	
lf		-10.80	-2.87	-4	
lp		-10.80	-2.87	-5	
ls		-10.80	-2.87	-4	
lt		-10.80	-2.87	-5	
lv		-10.80	-2.87	-2	
lθ		-10.80	-2.87	-4	
md		-10.80	-4.05	-2	
mf		-10.80	-4.05	-3	
mg		-10.80	-4.05	-2	
mp		-10.80	-4.05	-4	
nb		-10.80	-2.60	-2	
ns		-10.80	-2.60	-3	
nʃ		-10.80	-2.60	-3	
nt		-10.80	-2.60	-4	
ŋg		-10.80	-2.42	-2	
ŋk		-10.80	-2.42	-4	
pm		-10.80	-4.81	4	
pn		-10.80	-4.81	4	
ɪb		-10.80	-2.63	-4	
ɪz		-10.80	-2.63	-3	
sɪ		-10.80	-3.37	5	
tn		-10.80	-3.33	4	
zb		-10.80	-2.94	-1	
zd		-10.80	-2.94	-1	
zg	-10.80	-2.94	-1		
zɪ	-10.80	-2.94	3		
θl	-10.80	-6.06	4		

Appendix B: Test items

belesesh	beleskesh	belezgesh	benesid	benestid
benezdid	dakaduth	dakadwuth	dakadmuth	dakamduth
debapab	debaprab	debapmab	debampab	depasish
depasnish	depavrish	depansish	falageck	falaskeck
falazgeck	fazabish	fazablish	fazabnish	fazanbish
fibagath	fibagrath	fibagnath	fibangath	gidizop
gidikwop	gidizrop	gidirzop	hadaseph	hadaseph
hadazbepb	kapathiss	kapathriss	kapathliss	kapathliss
kenadozz	kenadrozz	kenadlozz	kenalbozz	kinitem
kinitrem	kinitlem	kiniltem	lapashup	lapashrup
lapashnup	lapanshup	lekagop	lekagrop	lekagnop
lekanop	lepabazz	lepablazz	lepabnazz	lepanbazz
lidigeph	lidigleph	lidigmeph	lidimgeph	madapazz
madaplazz	madapnazz	madalpazz	menesuss	menesluss
menesruss	menelsuss	naragish	naraglish	naragmish
naramgish	nepatep	nepatwep	nepatnep	nepantep
nibifim	nibifrim	nibifmim	nibimfim	nibisozz
nibispozz	nibizbozz	pimavib	pimasmib	pimavlib
pimalvib	pimitoth	pimitwoth	pimitnoth	pimintoth
redathosh	redathrosh	redathlosh	redalthosh	sakasud
sakasud	sakavrud	sakansud	sanakep	sanakrep
sanaknep	sanankep	sebishaph	sebishraph	sebishnaph
sebinshaph	shepidoph	shepidwoph	shepidmoph	shepidmoph
shigapeff	shigapleff	shigapneff	shigalpeff	shimabeph
shimabreph	shimabwepb	shimarbepb	sibidoss	sibistoss
sibizdoss	sipadesh	sipadresh	sipadlesh	sipalbesh
tabavub	tabasmub	tabavlub	tabalvub	tamapish
tamaprish	tamapmish	tamampish	thanabiss	thanabris
thanabwiss	thanarbiss	thibifar	thibiflar	thibizlar
thibilfar	vatafiss	vatafliss	vatazliss	vatafiss
vemikoph	vemikroph	vemiknoph	veminkoph	wabatiss
wabatriss	wabatliss	wabaltiss	wabiseph	wabisleph
wibisreph	wibilseph	zedafup	zedafrup	zedafmup
zedamfup	zepaziss	zepakwiss	zepazriss	zeparziss