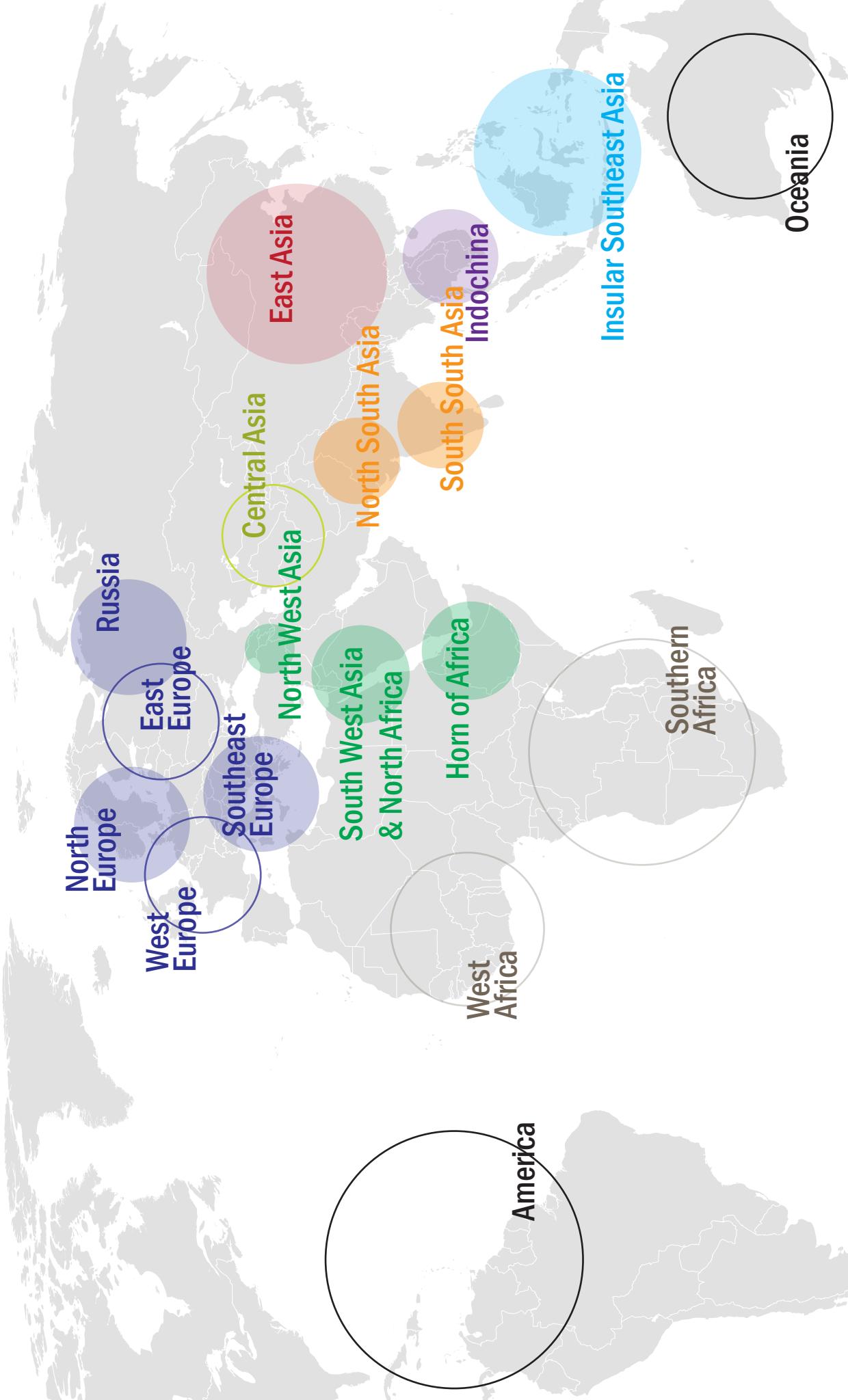


Cheat Sheets of World's Languages & Scripts

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Mongolian
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Same language with
different writing
system

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Shared same writing
system, considered
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Tibetan

P /p/ ད	PH /ph/ ག	B /ph/ ཁ	M /m/ ག
T /t/ ཅ	TH /th/ ང	D /th/ ཆ	N /n/ ང
K /k/ ཀ	KH /kh/ ཁ	G /kh/ ཁ	NG/ŋ/ ཁ
C /tʃ/ ང	CH /tʃh/ ང	J /tʃh/ ང	NY /ɲ/ ང
TS /ts/ ང	TSH/tsh/ ང	DZ /tsh/ ང	L /l/ ཁ
S /s/ ཁ	SH /ʃ/ ཁ	Z /s/ ཁ	R /r/ ཁ
H /h/ ཁ	- /-/ ཁ	' /h/ ཁ	Y /j/ ཁ
Rising Tone		'	W /w/ ཁ
Falling Tone			

Consonant Cluster

	+Y	པ	+R	ཇ	+W	ེ	+L	ི
S+	ས	ས+ཡ	ས+ར	ས+ସ	ස+ର୍ଵ	ସ+ଲ	ସ+ଲ୍	ସ୍କ
R+	ର	ର+ୟ	ର+ୟ	ର୍ବ	ର୍ବ	ର୍ବ	ର୍ବ୍	ର୍ବ୍ର
A	/s/ ཁ	I /ʃ/ ཁ	U /s/ ཁ	E /ʃ/ ཁ	O /r/ ཁ	ୱ	ୱ	ୱ୍ର

Consonant Spelling to Pronunciation

/pá/ P, *P	/pà/ RB, SB, SBR
/pʰá/ PH, 'PH	/pʰà/ B
/tá/ T, *T, TW, BLD	/tà/ *D (except LD, MD, 'D)
/tʰá/ TH, MTH, 'TH	/tʰà/ D, DW
/tsá/ TS, *TS, *TSW	/tsà/ RDZ, GDZ, BRDZ
/tshá/ TSH, TSH*, *TSH	/tshà/ DZ
/tʂá/ KR, *KR, *TR, *PR	/tʂà/ *GR (except MGR, 'GR), *BR
/tʂʰá/ *HR	/tʂʰà/ GR, DR, BR, GRW
/tɕá/ C, CW, *C, *PY	/tɕà/ *BY, RJ, GJ, BRJ
/tɕʰá/ *CH, *PHY	/tɕʰà/ J, BY
/cá/ *KY	/cà/ *GY (except MGY, 'GY)
/chá/ *KHY	/chà/ GY
/ká/ *K	/kà/ *G (except LG, MG, 'G)
/kʰá/ KH, KHW, *KH	/kʰà/ G, GW
/ʔá/ -, DB	/ʔà/ '
/sá/ S, SR, SW, GS, BS, BSR	/sà/ Z, *Z, ZW
/ʂá/ HR	
/ɕá/ SH, SHW, *SH	/ɕà/ ZH, ZHW, *ZH
/há/ H, HW	
/ntá/ LTH	/mpà/LB, 'B
	/ntà/ ZL, *ZL, LD, MD, 'D
	/ntsà/MDZ, 'DZ
	/ɳtʂà/MGR, 'GR, 'DR, 'BR
	/ɳtɕà/LJ, MJ, 'J, 'BY
	/ɳcà/ MGY, 'GY
	/ɳkà/ LG, MG, 'G

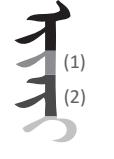
Consonant Spelling to Pronunciation (cont.)

/má/ *M, SMR	/mà/ M, MR
/ná/ *N	/nà/ N
/ɲá/ *NY, NYW, *MY	/ɲà/ NY, MY
/ɳá/ *NG	/ɳà/ NG
/lá/ *L	/là/ L, LW
/lá/ LH	
	/rà/ R, RW
/já/ GY	/jà/ Y
	/wà/ W, DB, B

B /b,v/	P /p/	M /m/	S /s/
Д, Т /d,t/	Н /th/	Ш /ʃ/	Ү /j/
Г /g/	К /χ/	НГ /kh/	Ч /tʃ ts/
Г /g/	Қ /χ/		Ҙ /tʃh tsh/
L /l/	R /r/	Y /j/	

initial form
medial form
final form

pronunciation of consonants with multiple pronunciations
are depended on context

A /a/	E /e/	I /i/	Ö,U /ø,ʊ/	Ö,Ü /œ,u/
				
				
			(med 1)	(med 2)
			(fin 1)	(fin 2)

Монгол хэл

В /p/	Б	Р /pʰ/	ґ	В	Г /w/	В	Ф /f/	Ф	М /m/	М
Д /t/	Д	Т /tʰ/	Ҭ	З	Г /ts/	Ӡ	С /s/	С	Н /n,ŋ/	Ҥ
Ч /tʃ/	Ч	Ц /tsʰ/	҆	Ж	Ч /tʃ/	Ж	Ш /ʃ/	Ш	Ү /ʃ/	Ү
Г /g,g/	Г	К /kʰ,x/	Ҝ	Х	Х /χ/	Х				
Л /lʒ/	Ӆ	Р /r/	Ҩ							

А /a/	А	И /i/	И	Ү /u/	Ү	Э /e/	Э	О /ɔ/	О
				Ӯ /u/	Ӯ			Ӷ /θ/	Ӷ
҂А /ja/	Ӓ	҂ /j/	Ӣ	Ӯ /ju/	Ӯ	Ӗ /jə/	Ӗ	Ӭ /jɔ/	Ӭ
Ү	/i/	Ӣ	' /j/	Ӯ	" /ju/	(separate syllables)	Ӯ		

ئۇيغۇر تىلى

final form medial form initial form

B /b/ بب	P /p/ پپ	W /v/ ۋۇ	F /f/ فف
D /d/ دد	T /t/ تت	Z /z/ زز	S /s/ سس
J /dʒ/ جج	CH /tʃ/ چچ	ZH /ʒ/ ڇڇڙ	SH /ʃ/ شش
G /g/ گگ	K /k/ كك	H /χ/ غغ	H /h/ ھھ
Q /q/ قق			
M /m/ مم	N /n/ نن	NG /ŋ/ ڭڭڭ	
L /l/ لل	R /r/ رر	GH /ʁ/ غغ	Y /j/ يېي
A /a/ ئئا	E /ɛ/ ئە	Ë /e/ ئې	I /i/ ئى
O /o/ وو	U /u/ ۇۇ	Ö /ø/ ۈۈ	Ü /y/ ۈۈ

ئ ئ is prepended to vowel when vowel appears at word-initial

Zhucuengh

MB /b/	B /p/	V /β/	F /f/	M /m/
	BY /pj/			MY /my/
ND /d/	D /t/	C /č/	S /θ/	N /n/
				NY /ɲ/
	G /k/		H /h/	NG /ŋ/
	GY /gj/	GV /kw/		NGV /ŋw/
L /l/	R /r/	Y /j/		
AE /a/	I /i/	U /u/	E /e/	OE /o/
A /a:/		W /w/		O /o:/
Z /31/	J /55/	X /42/	Q /35/	H /33/

Tone 1, /24/, has no tone mark.

Long vowel + P/T/K: /35/, Short vowel + P/T/K: /55/
+ B/G/D: /33/

თულოგიალ

P /p/ უ PH /ph/ მ მ /m/ ა F /f/ ე

T /t/ თ TH /th/ მ N /n/ ი S /s/ უ

K /k/ რ KH /kh/ გ NG /ŋ/ ნ H /h/ გ

C /ts/ ძ CH /tsh/ ყ X /χ/ ა Q /-/-/ თ

L /l/ ლ Y /j/ ლ V /w/ ი

A /a/ - A /a:/ ი I /i/ ე U /u/ ე ი /ɔ/ უ

EE /e/ ი EH /ɛ/ ი E /ə/ ი U /u/ ი OO /o/ ლ

T1 /24/ -

T2 /53/ პ T3 /11/ ე T4 /31/ ი T5 /43/ ღ T6 /33/ ც

တွေ့ဂျာနှေး

		High	Low	Final		High	Low	Final		High	Low	Final
B	/b/	ဥ	္	ု	P	/p/	ဤ	ု	PH	/ph/	ေ	ီ
D	/d/	ဗ	ဃ	ဗ	T	/t/	ဠ	ဗ	TH	/th/	ဣ	ု
					K	/k/	ဠ	ဥ	X	/kh/	ဗ	ု
					KW	/kw/	ု	ဥ	XW	/khw/	ဗ	ု
M	/m/	ူ	ဦ	ဦ	N	/n/	ေ	ု	NG	/ng/	ူ	ဦ
V	/v/	ေ	်	်	S	/s/	ဢ	ု	H	/h/	ေ	်
F	/f/	်	ာ		C	/ts/	ဥ	ဦ	Q	/t/	ဢ	ု
L	/l/	ေ	ဲ		Y	/j/	ဤ	ေ				
		+Y				+Y				+Y		+Y
A	/a/	ူ	ဤ		AA	/a:/	ဥ	ု	II	/i/	ဥ	ု
UU	/u/	ေ			E	/e/	ဥ		AE	/ɛ/	ေ	ု
O	/o/	ေ	ဧ		OA	/ɔ/	ဥ	ု		UE	/ə/	ဥ

Tone1 /55/ High Consonant

Tone4 /51/ Low Consonant

Tone2 /35/ HC+6

Tone5 /33/ LC+6

Tone3 /13/ HC+e

Tone6 /11/ LC+e

LAE

ေ

LAEV

ု



This language is currently unavailable



Pronunciation & Romanization

NB	/mᵇ/	BB	/b/	B	/p/	P	/pʰ/
ND	/nᵈ/	DD	/d/	D	/t/	T	/tʰ/
MG	/ŋ⁹/	GG	/g/	G	/k/	K	/kʰ/
M	/m/	HM	/m./	N	/n/	HN	/n./
NY	/ɲ/	NG	/ŋ/				
V	/v/	F	/f/	SS	/z/	S	/s/
R	/z/	SH	/ʂ/	Y	/ʐ/	X	/ɕ/
W	/ɣ/	H	/χ/	HX	/h/		
NZ	/n̪dʒ/	ZZ	/dʒ/	Z	/ts/	C	/tsʰ/
NR	/n̪dʐ/	RR	/dʐ/	ZH	/tʂ/	CH	/tʂʰ/
NJ	/n̪dʐ/	JJ	/dʐ/	J	/tɕ/	Q	/tɕʰ/
L	/l/	HL	/l./				
A	/a/	YR	/z/	UR	/vʷ/	IE	/ɛ/
E	/ɛ/	Y	/z/	U	/vʷ/	I	/e/
T	/ɪ/	X	/ɪ/	-	/ɪ/	P	/ɪ/

卷之三

卷之三

卷之三

卷之三

四

卷之三

卷之三

M
G
G
K
M
HN
HN
N

NY

A

E

YR Y

UR U

IE

O O

NG

V

F

SS

S

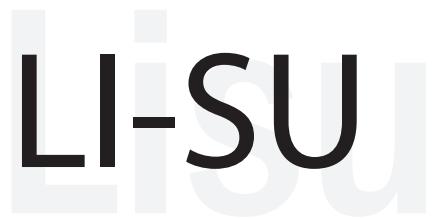
R

SH

	A	E	YR	Y	UR	U	IE	I	UO	O
J	+	-	+	-	+	-	+	-	+	-
Q	+	-	-	-	+	-	-	-	-	-
L	+	-	-	-	+	-	-	-	-	-
HL	+	-	-	-	+	-	-	-	-	-

Tone High (/5/, -t)
 each cell is organized by: Tone Middle (/3/, unmarked)
 Tone Falling (/21/, -p)

Tone High-mid (/4/, -x) is not shown, and is spelled by adding
 to tone middle, e.g. 𠎤(i) 𠎤(ix)



This language is currently unavailable

日本語 Japanese

Pronunciation & Romanization

B	/b/	P	/p/	V	/v/	F	/ɸ/	M	/m/
D	/d/	T	/t/	Z	/z/	S	/s/	N	/n/
J	/dʐ/	CH	/tʂ/			SH	/ʂ/		
G	/g/	K	/k/			H	/h,ç/		
R	/ɾ/	Y	/j/	W	/w/				
A	/a/	I	/i/	U	/u/	E	/e/	O	/o/

Special Mark

つ ツ Lengthens the following consonant

Hiragana

	A	I	U	E	O	YA	YU	YO
-	あ	い	う	え	お	や	ゆ	よ
H	は	ひ		へ	ほ	ひや	ひゅ	ひょ
F			ふ					
B	ば	び	ぶ	べ	ぼ	びや	びゅ	びょ
P	ぱ	ぴ	ぷ	ペ	ぽ	ぴや	ぴゅ	ぴょ
T	た			て	と			
CH		ち				ちゃ	ちゅ	ちょ
TS			つ					
D	だ			で	ど			
K	か		く	け	こ	きや	きゅ	きょ
G	が	き	ぐ	げ	ご	ぎや	ぎゅ	ぎょ
S	さ		す	せ	そ	しゃ	しゅ	しょ
SH		し						
Z	ざ		ず	ぜ	ぞ	じや	じゅ	じょ
J		じ						
M	ま	み	む	め	も	みや	みゅ	みょ
N	な	に	ぬ	ね	の	にや	にゅ	にょ
R	ら	り	る	れ	ろ	りや	りゅ	りょ
W	わ				を			
-N	ん							

Katakana

A	ア	イ	ウ	エ	オ	ヤ	ユ	ヨ
-	ア	イ	ウ	エ	オ	ヤ	ユ	ヨ
H	ハ	ヒ		ヘ	ホ	ヒヤ	ヒュ	ヒョ
F			フブ					
B	バ	ビ	ブ	ベ	ボ	ビヤ	ビュ	ビョ
P	バ	ピ	ブ	ペ	ボ	ピヤ	ピュ	ピョ
T	タ			テ	ト			
CH		チ				チャ	チュ	チョ
TS			ツ					
D	ダ			デ	ド			
K	カ	キ	クグ	ケゲ	コゴ	キャ	キュ	キヨ
G	ガ	ギ				ギヤ	ギュ	ギョ
S	サ		ス	セ	ソ	シャ	シュ	ショ
SH		シ	ズ	ゼ	ゾ	ジャ	ジュ	ジョ
Z	ザ	ジ						
J								
M	マ	ミ	ム	メ	モ	ミヤ	ミュ	ミョ
N	ナ	ニ	ヌ	ネ	ノ	ニヤ	ニュ	ニョ
R	ラ	リ	ル	レ	ロ	リヤ	リュ	リョ
W	ワ				ヲ			
-N	ン							

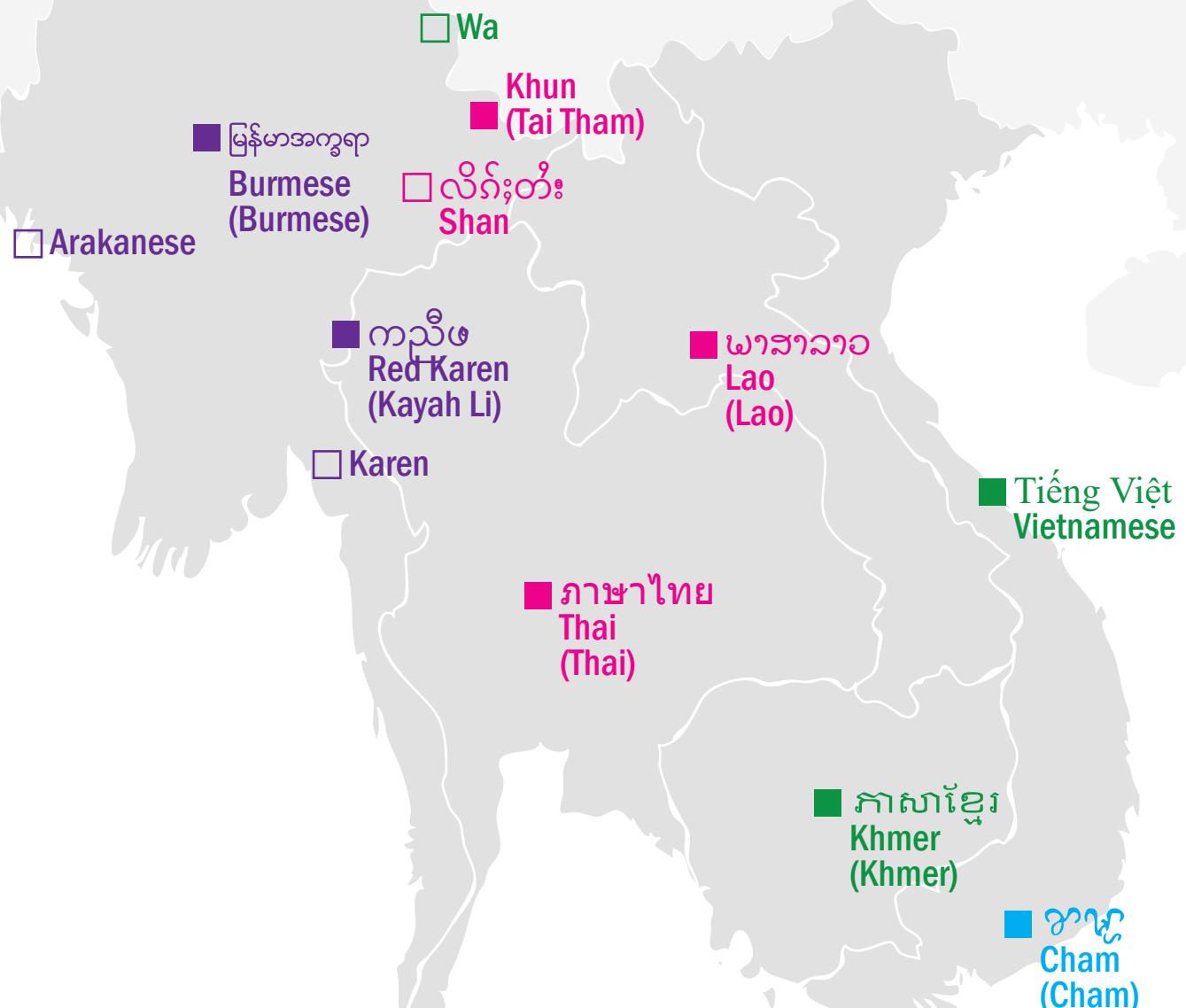
한국어 Korean

PP /p*/ ㅂㅂ	B /p/ ㅂ	P /pʰ/ ㅍ	M /m/ ㅁ
TT /t*/ ㄷㄷ	D /t/ ㄷ	T /tʰ/ ㅌ	N /n/ ㄴ
SS /s*/ ㅅㅅ		S /sʰ/ ㅅ	L /l/ ㄹ
JJ /tɕ*/ ㅈㅈ	J /tɕ/ ㅈ	CH /tɕʰ/ ㅊ	NG /ɾ/ ㅇ
KK /k*/ ㄱㄱ	G /k/ ㄱ	K /kʰ/ ㅋ	H /h/ ㅎ

pronunciation of the letter at the final is same as the letter in the same cell with grey background

	Y+		W+	
A /a/ ㅏ	YA ㅑ	ㅑ	WA ㅕ	ㅕ
EO /ɛ/ ㅓ	YEO ㅕ	ㅕ	WO ㅘ	ㅘ
E /e/ ㅔ	YE ㅖ	ㅖ	WE ㅖ	ㅖ
AE /ɛ/ ㅐ	YAE ㅒ	ㅒ	WAE ㅘ	ㅘ
I /i/ ㅣ			+I	
O /o/ ㅗ	YO ㅛ	ㅛ	OI ㅚ	ㅚ
U /u/ ㅜ	YU ㅠ	ㅠ	WI ㅟ	ㅟ
EU /w/ ㅡ			UI ㅡ	ㅡ

Indochina



မြန်မာဘာသာ

B /b/ ပ	BH /b/ ခ	P /p/ ဖ	PH /pʰ/ ဖု	M /m/ မ
D /d/ ဒ	DH /d/ ဓ	T /t/ ထ	TH /tʰ/ ထု	N /n/ န
D /d/ ဋ	DH /d/ ဟ	T /t/ ဋ္ဌ	TH /tʰ/ ဟု	N /n/ ဏ
Z /z/ ဇ	JH /z/ ဈ	C /s/ စ	CH /sʰ/ ဈံ	NY /j/ ယ
G /g/ ဂ	GH /g/ ဟာ	K /k/ က	KH /kʰ/ ခာ	NG /ŋ/ င
L /l/ လ		S /θ/ သ		H /h/ ဟ
L /l/ ဠ	R /r/ ရ	Y /j/ ယ	W /w/ ဝ	- /-/ ဒေ

Medial consonants

+Y /+j/ ယ

+R /+j/ ရ

+W /+w/ ဝ

H+ * ဟု

*indicating that a sonorant consonant is voiceless

Irregular stacked consonant clusters

NG + G ငံ တ + T တဲ တ + TH တဲး ဒ + D ဋ ဒ + DH ဒ္ထ န + D ဏ စ + S စဲ

when a final consonant (without inherent vowel) final consonant followed by another consonant, they could be stacked, the latter is usually written in smaller size below the former. However some clusters are written irregular as listed above.

Independent Vowels

	A /a/	I /i/	U /u/	E /e/	AI /ɛ/	AU /ɔ/	UI /o/
Low			ဗ				
High		ဣ		ဥ		ဝ	
Creaky	ဗ	ဢ	ဤ			ေ	

Oral Vowels (different tones written differently)

	A /a/	I /i/	U /u/	E /e/	AI /ɛ/	AU /ɔ/	UI /o/
Low	ခ	ဧ	ဦ	ဧ	ဧယ	ဧၢ	ၢ
High	ခံး	ဧံး	ဦံး	ဧံး	ဧ	ဧၢး	ၢံး
Creaky	ခ	ဧ	ဦ	ဧံး	ဧၢ	ဧၢး	ၢ

Nasal Vowels (tones indicated by extra marks)

	A	UA	U	I
-M	ခုမ /an/	ခိုမ /wan/	ဦမ /oun/	ဧမ /ein/
-N	ခုန /an/	ခိုန /wan/	ဦန /oun/	ဧန /ein/
-NY	ခုပ /in/		AU	UI
-NG	ခုင /in/	ခိုင /win/	ဦင /oun/	ဧင /ain/

Irregular Nasal Vowels

ဧၢ်	ၢ	ၢံ
ANY /e/	AM /a/	UM /oun/

Nasal Tones

ဧန	ဧနံး	ဧနံးၢ
Low	High	Creaky

*k, t, p could also append some vowels above as final, which pronounced as a stop sound

Khun

This language is currently unavailable

Red Karen

This language is currently unavailable

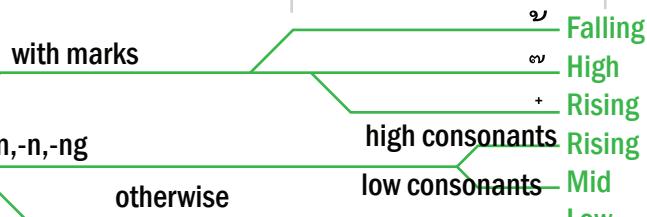
อักษรไทย

B /b/ ບ	D /p/ ດ	K /m/ ກ
P /b/ ປ	T /p/ ຕ	
PH /b/ ພ ພກ	TH /p/ ນີກ ທ່ານທຣ	KH /m/ ຂ ຂໍມ
F /b/ ຝ ຝ	S /p/ ສະສ ຊ	H /m/ ອ ອ
	CH /p/ ຜ ທ່ານ	- /m/ ອ
	CH /p/ ອ	
M /b/ ມ	N /p/ ນ	NG /m/ ກ
	Y /p/ ຍ	W /m/ ວ
	L /p/ ລພ	
	R /p/ ຮ	

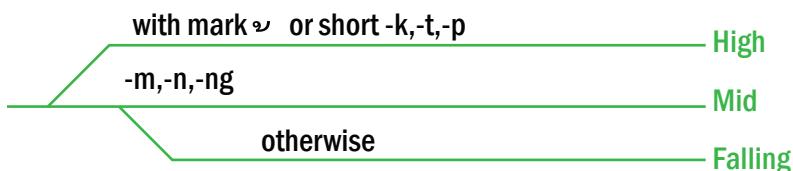
Letters on the left of dashed line: High Consonant
on the right: Low Consonant
across the line: Mid Consonant

Determine the tone:

Mid/High Consonants:



Low Consonants:



when consonants with only Low class alphabet is prepended by ອ (High class h) or ອ (Mid class -), it is regarded as a Mid/High consonant, and use the procedure of Mid/High consonants to determine the tone. The prepended consonants itself is silent.

Tones:

- High /55/
- Rising /25/
- Mid /33/
- Falling /41/
- Low /11/

Simple Vowels

	A /a/	I /i/	UE /u/	U /u/	E /e/	AE /ɛ/	O /o/	O /ɔ/	OE /ø/
Long	ກາ	ກີ	ກີ	ກຸ	ເກ	ແກ	ໂກ	ກອ	ເກອ
(alternative spelling)			ກົວ					ກະ	ເກີ
Short	ກະ	ກີ	ກົ້	ກຸ້	ເກະ	ແກະ	ໂກະ	ເກະ	ເກວະ
(alternative spelling)					ເກີ	ແກີ		ກວ	

*Pink short vowels are systematically derived from long vowels by append ຊ or ອ

Diphthongs

	IA /ia/	UEA /ua/	UA /ua/
Long	ເກີຍ	ເກືອ	ກົວ
Short	ເກີຍະ	ເກືອະ	ກົວະ

Phonetic diphthongs

AO (short) /au/	AI (short) /ai/
ເກາ	ໄກ

*Other than special phonetic diphthongs listed above, phonetic diphthongs are composed by appending ໃ (+ Y) or ອ (+ W)

Special Vowels

AM /am/	RUE /ru/	RUE /rw:/	LUE /lw/	LUE /lw:/	AA /a/, /an/ (final)
ກຳ	ກຸ	ກົາ	ກຸ	ກົາ	ກຣ

ພາສາລາວ

B /b/ ບ	D /p/ ດ	K /m/ ກ
P /b/ ປ	T /p/ ຕ	
PH /b/ ແ ໂ	TH /p/ ຖ ບ	KH /m/ ຂ ອ
F /b/ ແ ໂ	S /p/ ສ ຊ	H /m/ ມ ນ
	CH/p/ ດ	- /m/ ຕ
M /b/ ພ	N /p/ ນ	NG/m/ ພ
	NY /p/ ນ	W /m/ ວ
	Y /p/ ຍ	
	L /p/ ລ	
← →	R /p/ ຮ	
Letters on the left of dashed line: High Consonant on the right: Low Consonant across the line: Mid Consonant		

As in Thai, ຜ (High class h) or ວ (Mid class -) could be prepended to a Low class vowel to “lead” it to High class. Some letters have digraphs form:

ໝ ໝ ໣ ໝ

H+N H+M H+R H+L

Determine the tone:

	Long Vowel / Vowel + Voiced Consonants	Long Vowel + Unvoiced Consonants	Short Vowel	‘	‘	Tones:
High Consonants	Rising	Low Falling	High	Mid	Low Falling	Rising /35/
Middle Consonants	Low Rising	Low Falling	High	Mid	High Falling	High /44/
Low Consonants	High	High Falling	Mid	Mid	High Falling	High Falling /53/ Mid /33/ Low /11/ Low Falling /31/

Simple Vowels

	A /a/	I /i/	UE /u/	U /u/	E /e/	AE /ɛ/	O /o/	O /ɔ/	OE /œ/
Long	ກາ	ກ	ກ	ນ	ເກ	ແກ	ໂກ	ກອ	ເກ
(alternative spell)								ກ	
Short	ກະ	ກ	ກ	ນ	ເກະ	ແກະ	ກ	ເກະ	ເກ
(alternative spell)	ກ				ເກ	ແກ	ໂກ	ກອ	

*Pink short vowels are systematically derived from long vowels by append ະ or ຊ

Diphthongs

Phonetic diphthongs

	IA /ia/	UEA /ua/	UA /ua/	AO (short) /au/	AI (short) /ai/	AM (short) /am/
Long	ເກຍ	ເກີອ	ກວ	ເກິ	ໄກ	ກໍ
(alternative spell)	ກງ		ກວ		ໄກ	ກໍ
Short	ເກຢ	ເກີອ	ກວະ	ກວ		ກໍຢ
(alternative spell)	ກງ		ກວ			

Tiếng Việt

B	/b/	P	/p/	V	/v/	PH	/f/	M	/m/				
Đ	/d/	T	/t/	TH	/tʰ/	D	/z/	X	/s/	N	/n/		
C	/k/	KH	/χ/	G	/ɣ/	H	/h/	NG	/ŋ/				
(K before i e ê)		(GH before i e ê)		(NGH before i e ê)									
(Q before u)													
CH	/tʂ/	TR	/tʂ/	R	/z/	S	/s/	GI	/z/	NH	/ɲ/		
(final: /k/)													
L	/l/	Y	/j/	U	/w/								
	(l in various cases)												
Ă	/a/	Â	/ə/	E	/ɛ/	O	/ɔ/	I	/i/	Ư	/i/	U	/u/
A	/a:/	O'	/ə:/	Ê	/e/	Ô	/o/						

IA /iə/ ƯA /iə/ UA /uə/
 (when followed by a consonant,
 spelled as IÊ, ƯO', UÔ')

Closing diphthongs and Triphthongs

prepend or append I (/j/) or U (/w/) to form diphthongs and triphthongs, with following rules:

I → Y after Ă, Â, U

U → O when: 1.before/after A, E; 2.before Ă

Ă → A before I, U

e.g. U + Ă + I → OAY /waj/

Tones

A	Mid Level /33/
À	Low Falling /21/
Ã	Mid Falling /31/
Ã	Glottalized Rising /35?/
Á	High Rising /35/
À	Glottalized Falling /32?/

ភាគរបៀបខ្លួន

initial form
subscript form

B,P/b,p/	ប	PH /ph/	ភ	V /v/	វ	M /m/	ម
D /d/	ឃ	ឃ	ឃ	S /s/	ស	N /n/	ន
T /t/	ធម៌	ធម៌	ធម៌				
CH /ch/	ឈ	ឈ	ឈ	H /h/	ឃ	NH /ŋ/	ឃ
K /k/	ឃ	ឃ	ឃ	'	/-/	៥	៥
L /l/	ឲ	ឲ	R /r/	ឲ	ឲ		

Consonants in left has an inherent Å /a:/ while these in right has an inherent Ô /ɔ:/

* appears may be modified by certain vowels

**  when alone,  when subscripted itself

Supplementary Consonants (used in loan words, no subscript form)

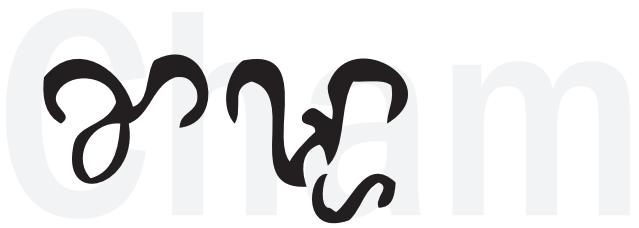
G /g/ ក កែ F /f/ ប បុ Z /z/ ហ ហុ L /l/ ល
M /m/ ម មុ N /n/ ន នុ P /p/ ប បុ

Dependent Vowels

	ଅ	ଅଗ	ଅଦ୍ବୀ	ଅଦ୍ବିତୀ								
A-class consonants	ଆ	ା	ୟ	ୟି	ୟେ	ୟେ	ୟୋ	ୟୁ	ୟୁ	ୟୋ	ୟେଅ	ୟେଇ
O-class consonants	ୟୋ	ୟେଅ	ୟୀ	ୟି	ୟେ	ୟେ	ୟୁ	ୟୁ	ୟୁ	ୟୋ	ୟେଅ	ୟେଇ
	ଏଇ	ଏହ	ଏହି	ଏହି	ଏହା							
A-class consonants	ଏୟୁ	ୟେ	ୟେ	ୟି	ୟେ	ୟେ	ୟୁ	ୟୁ	ୟୁ	ୟୋମ	ୟୋହ	ୟୋହା
O-class consonants	ୟୋ	ୟେ	ୟେ	ୟି	ୟେ	ୟେ	ୟୁ	ୟୁ	ୟୁ	ୟୋହ	ୟୋହା	ୟୋହା

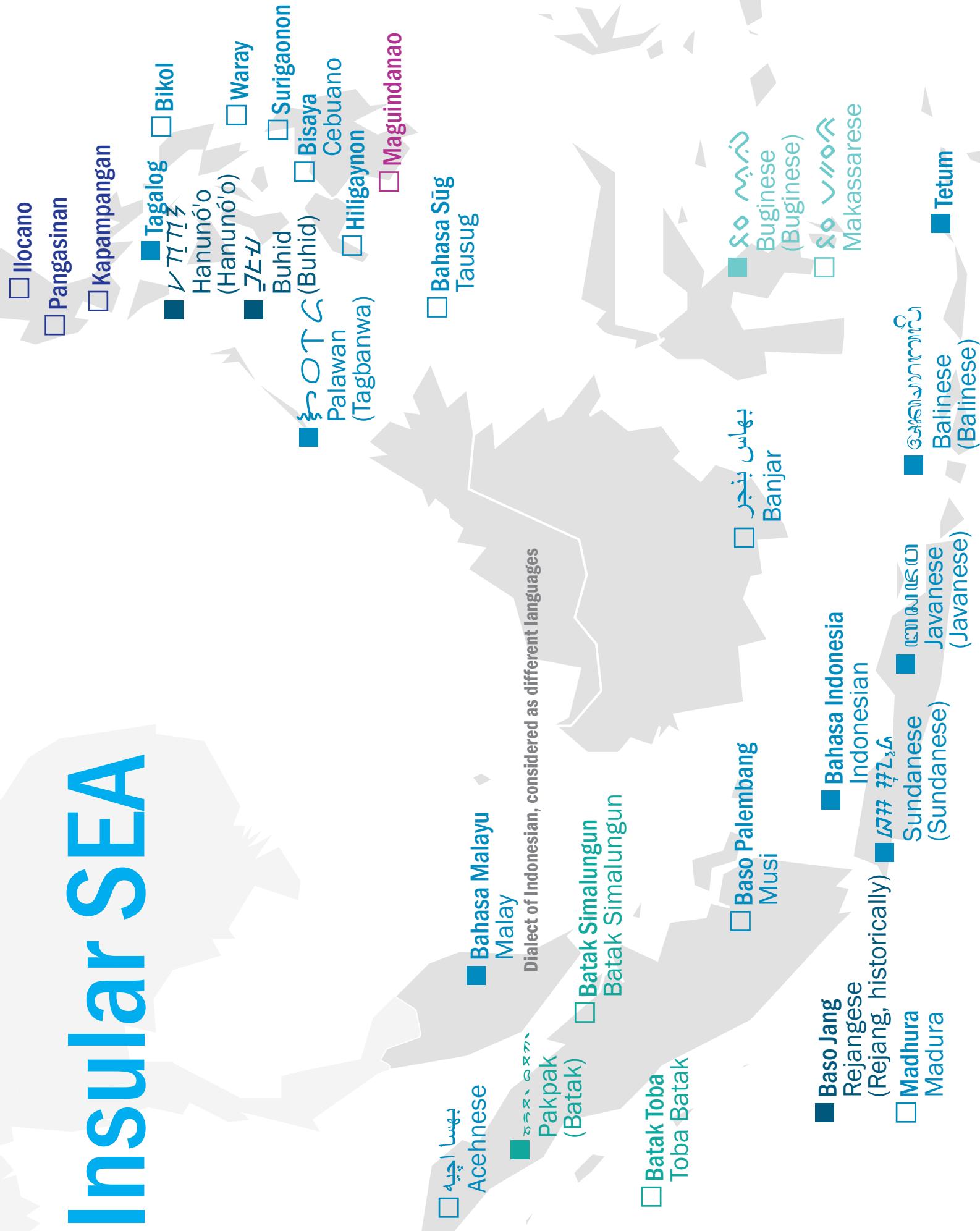
Independent Vowels

ଅ	ଏ	ଇ	ୟୁ	ୟ	ୟେ	ୟୋ	ୟୋମ	ୟୋହ	ୟୋହା
ୟୋ	ୟେ	ୟେ	ୟୁ	ୟୁ	ୟୁ	ୟୁ	ୟୋମ	ୟୋହ	ୟୋହା
ୟୋହ	ୟୋହା								
ଅ	ଏ	ଇ	ୟୁ	ୟ	ୟେ	ୟୋ	ୟୋମ	ୟୋହ	ୟୋହା
ଅ	ଏ	ଇ	ୟୁ	ୟ	ୟେ	ୟୋ	ୟୋମ	ୟୋହ	ୟୋହା



This language is currently unavailable

Insular SEA



Bahasa Indonesia

B	/b/	P	/p/	F	/f/	M	/m/
D	/d/	T	/t/	S	/s/	N	/n/
J	/dʒ/	C	/tʃ/	GH	/χ/	NY	/ɲ/
G	/g/	K	/k/	H	/h/	NG	/ŋ/
L	/l/	R	/r/	Y	/j/	W	/w/

Consonants used only in loan words

Q	/k/	V	/f/	X	/ks/	Z	/z/
KH	/χ/	SY	/ʃ/				

A	/a/	I	/i/	U	/u/	E	/e/	O	/o/
Closed Final: /ɛ/								/ɔ/	

AI /ai/ AU /au/ OI /oi/

Javanese

initial form
subscript form

B /b/	P /p/	M /m/
D /d/	T /t/	N /n/
DH/d/	TH /t/	NY /ŋ/
J /dʒ/	C /tʃ/	S /s/
G /g/	K /k/	H /h/
L /l/	R /r/	Y /j/
W /w/		
Dependent Form		Independent Form
A /a/		
I /i/		
U /u/		
É /e/		
O /o/		
E /ə/		
Medials		
+Y+	+R+	
Finals		
+M /m/	+NG /ŋ/	+R /r/
+H /h/		
Nullified the inherent /a/		

Sundanese

B /b/	Ɓ	P /p/	ƕ	M /m/	Ɯ
D /d/	Ɗ	T /t/	ڻ	N /n/	ڙ
J /dʒ/	ڇ	C /tʃ/	ڻ	NY /ɳ/	ڻڻ
G /g/	ڳ	K /k/	ڦ	H /h/	ڻ
L /l/	ڸ	R /r/	ڻ	Y /j/	ڻ

Consonants used only in laon words

V /v/	ڻ	F /f/	ڻ	Z /z/	ڻ	Q /q/	ڻ
X /ks/	ڻ	SY /ʃ/	ڻ	KH /χ/	ڻ		

Independent and dependent vowels

A /ɑ/	I /i/	U /ʊ/	EU /ɛ/	É /ɛ/	E /ə/	O /ɔ/
ܶ	ܶ	ܶ	ܶ	ܶ	ܶ	ܶ
ܶ	ܶ	ܶ	ܶ	ܶ	ܶ	ܶ

Medials

L /l/

ܶ

R /r/

ܶ

Y /j/

ܶ

Finals

NG /ɳ/

ܶ

R /r/

ܶ

H /h/

ܶ

Nullified the
inherent /a/

ܶ

Rejangese

MB/mb/  B /b/  P /p/  M /m/ 

ND/nb/  D /d/  T /t/  S /s/  N /n/ 

NYJ /ŋj/  J /j/  C /cl/  H /h/  NY /ŋ/ 

NGG /ŋg/  G /g/  K /k/  - /-/  NG /ŋ/ 

L /l/  R /r/  Y /j/  W /w/ 

A /a/ 	I /i/ 	U /ʊ/ 	EU /ɛ/ 	É /ɛ/ 	O /ɔ/ 
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H /h/ 	K /k/ 	I /i/ 	R /r/ 	NG /ŋ/ 	N /n/ 	Nullified the inherent /a/
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Pakpak

B /b/ 

P /p/ 

M /m/ 

D /d/ 

T /t/ 

S /s/ 

N /n/ 

J /dʒ/ 

C /tʃ/ 

H /h/ 

G /g/ 

K /k/ 

- /-/ 

NG /ŋ/ 

L /l/ 

R /r/ 

Y /j/ 

W /w/ 

A /ɑ/ 

I /i/ 

U /ʊ/ 

É /ɛ/ 

O /ɔ/ 

Independent Form





NG /ŋ/ 

H /h/ 

Nullified the
inherent /a/



Balinese

This language is currently unavailable

Buginese

MP/mp/  B /b/  P /p/  M /m/ 

NR /nr/  D /d/  T /t/  S /s/  N /n/ 

NC /ŋcl/  J /ʒ/  C /cl/  H /h/  NY /ɲ/ 

NGK /ŋk/  G /g/  K /k/  - /-/  NG /ŋ/ 

L /l/ R /r/ Y /j/ W /w/ M

A /ɑ/ I /i/ U /u/ E /e/ É /ə/ O /o/

A decorative horizontal bar featuring five pairs of stylized symbols. From left to right, the symbols are: two parallel diagonal lines, a dot above two parallel diagonal lines, two parallel diagonal lines, a curved arrow pointing up and to the right above two parallel diagonal lines, and two parallel diagonal lines with a curved arrow pointing down and to the right at their right end.

Pilipino

B	/b/	P	/p/	M	/m/
D	/d/	T	/t/	S	/s/
G	/g/	K	/k/	H	/h/
L	/l/	R	/r/	Y	/j/
W	/w/				

Consonants used only in loan words

F	/f/	J	/dʒ/	Ñ	/ɲ/	X	/ks/
Q	/k/	C	/k/	Z	/z/		

A /a/ I /i/ U /u/ E /ɛ/ O /o/

Hanunó'o

B /b/	ጀ	P /p/	ጀጀ	M /m/	ጀጀጀ
D /d/	ጀጀ	T /t/	ጀጀጀ	N /n/	ጀጀጀጀ
G /g/	ጀጀጀ	K /k/	ጀጀጀጀ	NG/ŋ/	ጀጀጀጀጀ
L /l/	ጀጀጀጀ	R /r/	—	Y /j/	ጀጀጀጀጀ
A /a/	ጀጀጀጀጀ	I/E /i,e/	ጀጀጀጀጀጀ	U/O /u,o/	ጀጀጀጀጀጀጀ
Dependent Form	ጀጀጀጀጀጀ	ጀጀጀጀጀጀጀ	ጀጀጀጀጀጀጀጀ	ጀጀጀጀጀጀጀጀጀ	ጀጀጀጀጀጀጀጀጀጀ
Independent Form	ጀጀጀጀጀጀጀጀ	ጀጀጀጀጀጀጀጀጀ	ጀጀጀጀጀጀጀጀጀጀ	ጀጀጀጀጀጀጀጀጀጀጀ	ጀጀጀጀጀጀጀጀጀጀጀጀ

Buhid

A /a/ I/E /i,e/ U/O /u,o/

A /a/ I/E /i,e/ U/O /u,o/

B /b/ **ബ** ഭ ബ

M /m/ **മ** മ മ

P /p/ **പ** പ പ

N /n/ **ൻ** ന ന

D /d/ **ഡ** ദ ദ

NG/ണ/ **ണ** ണ ണ

T /t/ **ട** ട ട

L /l/ **എ** എ എ

G /g/ **ഘ** ഘ ഘ

R /r/ — ഫ ഫ

K /k/ **ക** ക ക

Y /j/ **ജ** ജ ജ

S /s/ **ശ** ശ ശ

W /w/ **ഉ** ഉ ഉ

H /h/ **ഒ** ഒ ഒ

- /-/ വ വ ശ

Tagbanwa

B /b/ O P /p/ V M /m/ V

D /d/ V T /t/ V S /s/ V N /n/ T

G /g/ V K /k/ X NG/ŋ/ Y

L /l/ V Y /j/ V W /w/ C

A /a/

I/E /i,e/

U/O /u,o/

Dependent Form

X

X

X

Independent Form

V

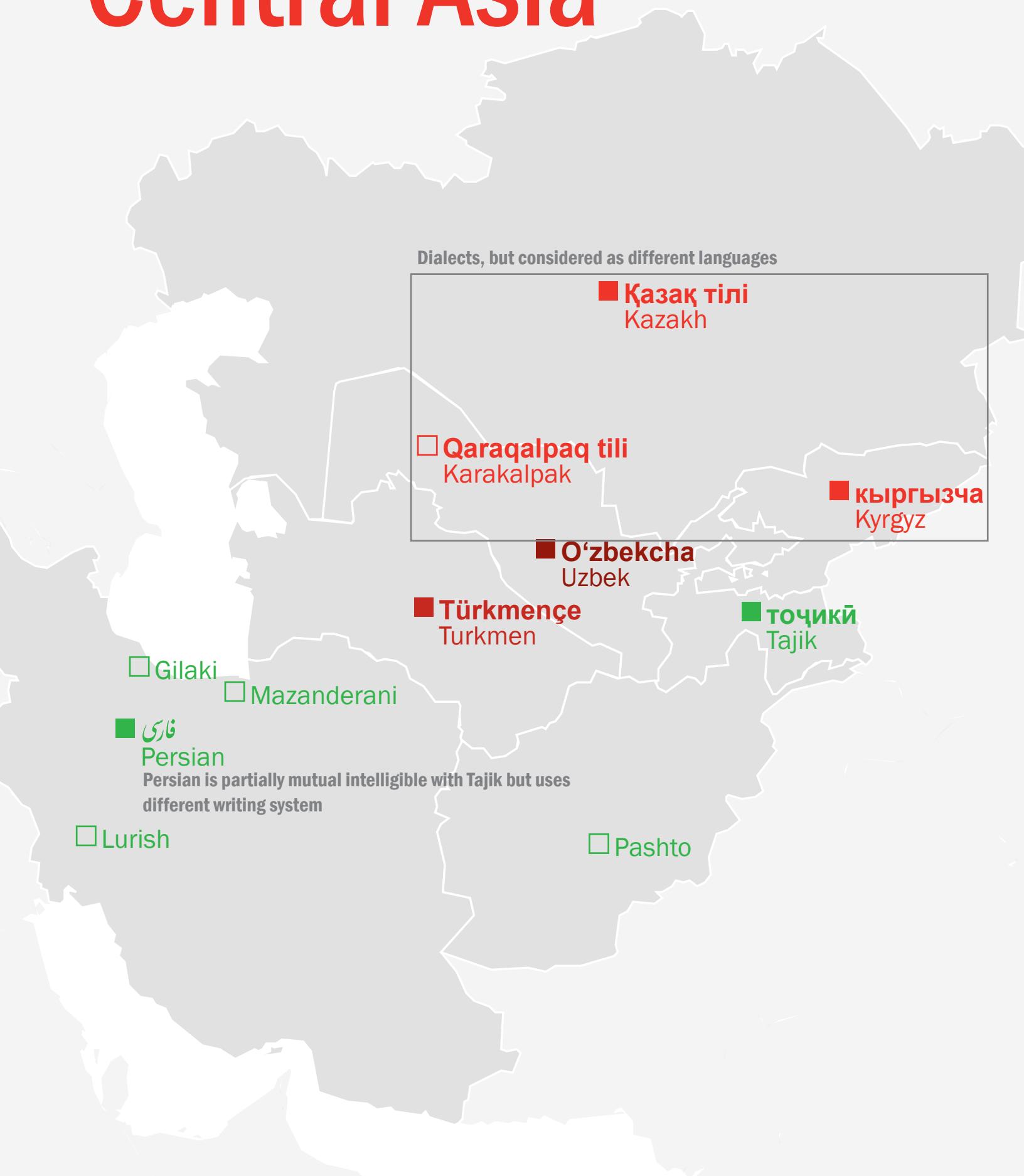
V

V

Lia-Tetum

B	/b/	P	/p/	V	/v/	F	/f/	M	/m/
D	/d/	T	/t/	Z	/z/	S, C	/s/	N	/n/
J	/dʒ/					X, S	/ʃ/	Ñ	/ɲ/
G	/g/	K, C, Q	/k/	'	/ɾ/	H	/h/		
L	/l/	LL	/ɿ/	R	/r/	Y	/j/	W	/w/
A	/a/	I	/i/	U	/u/	E	/e/	O	/o/
Ã	/ã/	Í	/í/	Ü	/ü/	Ê	/ẽ/	Õ	/õ/

Central Asia



Казак тілі

B /b/	Б	P /p/	П	V /v/	В	F /f/	Ф	M /m/	М
D /d/	Д	T /t/	Т	Z /z/	З	S /s/	С	N /n/	Н
				J /ʒ/	Ж	Ş /ʃ/	Ш		
G /g/	Г	K /k/	К	X /χ/	Х			Ñ /ŋ/	Ң
		Q /q/	Қ	Ğ /ɣ/	Ғ	F	Ғ	H /h/	Ҳ
L /l/	Л	R /r/	Р						

Used only in loan words

C /ts/	Ц	Ç /tç/	Ҕ	Şş /ç:/	Җ
--------	---	--------	---	---------	---

“Back” A /ɑ/ А I /ə/ Ы U /ʊ/ Ү O /uʊ/ О

“Front” Ä /æ/ Ә İ /ə/ И E /iə/ Е Ü /ɯ/ Ү Ö /yɯ/ Ө

Y+ YA /ja/ Я YW /jɯ/ ЙО YO /jo/ Ѓ

“Neutral” Y /j/ Й

 İ И /əj/ adjacented with ғ, қ and back vowels

 /əj/ adjacented with ғ, қ and front vowels

W Y /ʊw/ adjacented with ғ, қ and back vowels

 /ɯw/ adjacented with ғ, қ and front vowels

 /w/ before, between vowels and at the end

Used only in loan words

É /e/ Ә " ТЬ ' Ъ (see Russian)

O'zbekcha

B	/b/	P	/p/	F	/ɸ/			M	/m/
D	/d/	T	/t/	Z	/z/	S	/s/	SH	/ʃ/
				J	/dʒ/	TS	/ts/	CH	/tʃ/
G	/g/	K	/k/					NG	/ŋ/
		Q	/q/	G'	/β/	X	/χ/	H	/h/
L	/l/	R	/r/	Y	/j/				

Consonants used only in loan words

J /ʒ/ V /v/

A /a/ O /o/ I /i/ U /u/ E /e/ O' /o/

After a vowel: YE

ТОЧИКӢ

B /b/	Б	P /p/	П	V /v/	В	F /f/	Ф	M /m/	М
D /d/	Д	T /t/	Т	Z /z/	З	S /s/	С	N /n/	Н
J /dʒ/	Җ	CH /tʃ/	Ч	ZH /ʒ/	Ж	SH /ʃ/	Ш		
G /g/	Г	K /k/	К	GH /χ/	Ғ	KH /χ/	Ҳ		
		Q /q/	Қ	- /ɾ/	Ҙ	H /h/	Ҳ		
L /l/	Л	R /r/	Р	Y /j/	Ҵ				

A /a/ А I /i/ И U /u/ Ү E /e/ Е O /ɔ/ О Ū /ə/ Ӯ
at the beginning: Э

YA /ja/ Я Ī /ij/ Ӣ YU /ju/ Ю YO /jɔ/ Ӭ

Türkmençe

B	/b/	P	/p/	W	/β/	F	/ɸ/	M	/m/
D	/d/	T	/t/	Z	/ð/	S	/θ/	N	/n/
J	/dʒ/	Ç	/tʃ/	Ž	/ʒ/	Ş	/ʃ/		
G	/g/	K	/k/			H	/χ/	ň	/ŋ/
L	/l/	R	/r/	Ý	/j/				

A /a/ I /i/ Ü /y/ U /u/ Y /w/ E /e/ O /o/ Ö /ø/
Ä /æ/ ÜÝ /y:/

Кыргызча

B /b/	Б	P /p/	П	M /m/	М		
D /d/	Д	T /t/	Т	Z /z/	З		
				J /dʒ/	Ж		
				Ş /ʃ/	Ш		
G /g/	Г	K /k/	К	X /χ/	Х	NG/ŋ/	Ң
L /l/	Л	R /r/	Р				

Used only in loan words

V /v/	В	F /f/	Ф	TS /ts/	Ц	Ç /tʃ/	Ч	ŞC/ç:/	Щ
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- К, Г, Ң = /q/, /g/, /N/ before or after vowels in first row ("front vowels")
- К, Г = /χ/, /v/ between vowels in second row ("back vowels")
- Л = /l/ before or after back vowels

A /a/	А	I /u/	Ы	W /u/	Ү	O /o/	О
E /e/	Э	İ /i/	И	Ü /y/	Ү	Ö /ø/	Ө
YA /ja/	Я	Y /j/	Й	E /je/	Е	YW /jʊ/	Ю
						YO /jo/	Ё

Ю = /jy/ between front vowels

Used only in loan words

" Ъ ' Ъ (see Russian)

Persian فارسی

final form medial form initial form

B /b/ ب	P /p/ پ	F /f/ ف
D /d/ د	T /t/ ت	S /s/ س
	ت ت ت	ز ز ز
	ط ط ط	ظ ظ ظ
	ذ ذ ذ	ض ض ض
Z /z/ ز	S /s/ ش	ش ش ش
J /dʒ/ ج	CH /tʃ/ چ	ژ ژ ژ
G /g/ گ	K /k/ ک	H /h/ ه
Q /q/ ق	' /q/ ع	ح ح ح
M /m/ م	N /n/ ن	
L /l/ ل	R /r/ ر	و و و
	ر ر ر	ي ي ي
	ل ل ل	ا ا ا

Additional Consonants

-H /ah/ هـ ' /ʔ/ (Glottal Stop) ؽ Gemination (doubling the consonant) لـلـلـ L+Alif لـلـلـ

Long vowels (disappear in modern Persian but still written)

Ā آ Y represents /i:/ or /o:/ W represents /u:/, /o/ or /ow/

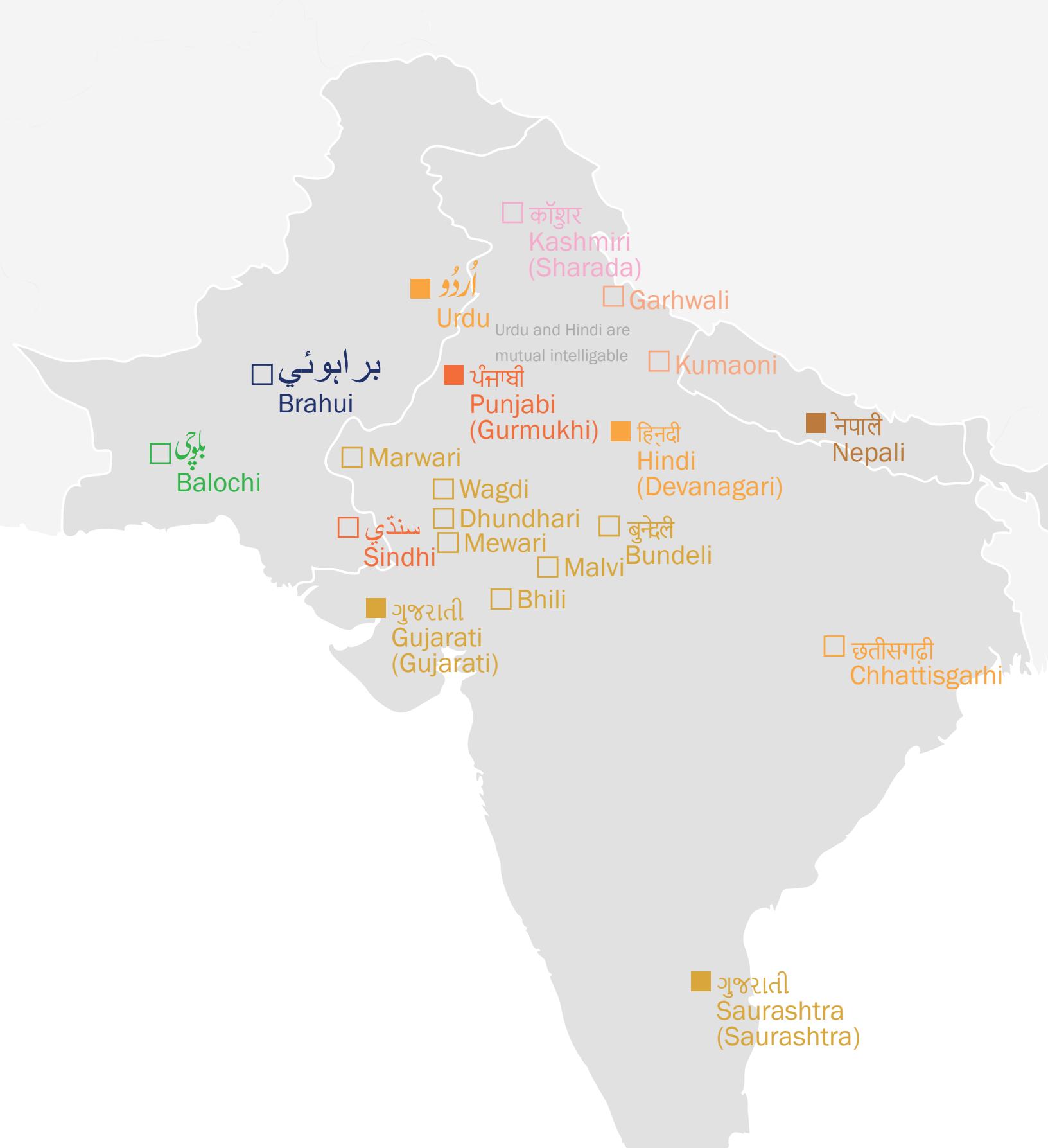
Vowels diacritics (usually not written)

A /æ/ بـ	E /e/ بـ	O /o/ بـ
No Vowel بـ	AN /æn/ بـ بـ	

Pashto

This language is currently unavailable

North India



اردو

final form medial form initial form

B /b/ ببب	P /p/ پپپ	F /f/ ففف
D /d/ ددد	T /t/ تتت	Z /z/ ززز
D /d/ ڈڈڈ	T /t/ ٹٹٹ	T /t/ ططط
Z /z/ ذذذ	S /s/ ثثث	Z /z/ ضضض
J /dʒ/ ججج	CH /tʃ/ چچچ	ZH /ʒ/ ڙڙڙ
G /g/ گگگ	K /k/ ککک	GH /ɣ/ غغغ
Q /q/ ڦڦڦ	H /h/ ههه	H /h/ ههه
M /m/ ممم	N /n/ ننن	
L /l/ للل	R /r/ ررر	R /r/ ڙڙڙ

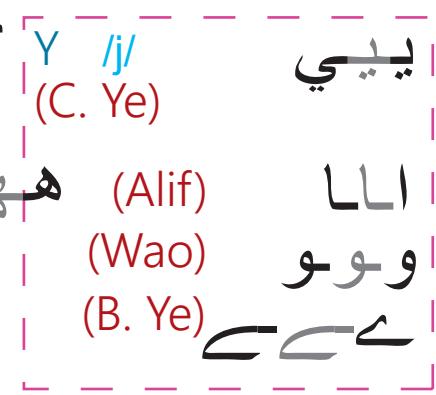
Additional Consonants

' /ʔ/ ؽ Glottal Stop ں N /~/ Nasalization

س H /h/ Aspired Consonant

ههه

ااا



used to write vowels,
don't have fixed sound

	initial form	medial form	final form (=medium form if leftblank)
A /ə/	أَبْ	بَ	
Ā /a:/	أَبْ	بَا	
I /ɪ/	إِبْ	بِلْ	
Ī /i:/	إِيْبْ	بِلْيَ	
U /ʊ/	أُبْ	بُلْ	
Ū /u:/	أُوبْ	وُبْ	
E /e:/	اِبْ	بِلْ	بِلْ
AI /ɛ:/	آبْ	بِلْ	بِلْ
O /o:/	اوْب	وَبْ	
AU /ɔ:/	اوْب	وَبْ	

हिन्दी

B /b/ ब	BH/bʱ/ भ	P /p/ प	PH/pʰ/ फ	M /m/ म
D /d/ द	DH/dʱ/ ध	T /t/ त	TH/tʰ/ थ	N /n/ न
Ḍ /ɖ/ ढ	ḌH/ɖʱ/ ढ्ह	Ṭ /ʈ/ ट	ṬH/ʈʰ/ ठ्ह	ṇ /ɳ/ ण
J /dʒ/ ज	JH/dʒʱ/ झ्ह	C /tʃ/ च	CH/tʃʰ/ छ्ह	Ṅ /ɲ/ अ
G /g/ ग	GH/gʱ/ घ्ह	K /k/ क	KH/kʰ/ ख्ह	Ṅ /ŋ/ ऊँ
L /l/ ल	R /r/ र	Y /j/ य	V /w/ व	H /h/ ह

Independent	A /ə/ अ	I /i/ इ	U /u/ उ	E /e/ ए	O /o/ ओ	ଲ୍	R /r/ ର୍
Dependent	କ	କି	କୁ	କେ	କୋ	କ୍ଳ	କ୍ର
Independent	Ā /a/ आ	ଈ	ୱୁ	ଏ	ଔ	ଲ୍ଲ	ର୍ବ
Dependent	କା	କୀ	କୁ	କୈ	କୌ	କ୍ଳ	କ୍ର୍ବ
Independent	ମଁ /a:/ अଁ	ନଁ /ŋ/ अଂ	ହଁ /əh/ अः	S Prolong Vowel			
Dependent	କଁ	କୁଂ	କ୍ଷଃ	କ୍ଷ Kill inherent vowel			
				ॐ AUM /om/			

Consonant Cluster

1. When followed by a consonant:

(1). consonants contain a vertical right stroke lose that stroke

ਖ ਗ ਘ ਚ ਜ ਝ ਅ ਣ ਤ ਥ ਧ ਨ ਪ ਬ ਮ ਯ ਲ ਵ ਷ ਸ ਸ਼*

* sometimes appears as ਖ

(2). ਕ ਫ ਲ਼ change their last stroke to a horizontal dash

(3). ਰ changes to ਰ

When follow a consonant:

1. ਰ changes to ਰ or ਰ

2. ਧ changes to ਧ when follow a consonant not appear in 1.(1)-(3)

3. other consonants may lost their top stroke and write on the bottom

Exceptions:

ਅ + ਅ = ਝ *

ਤ + ਤ = ਤ

ਕ + ਵ = ਕਵ

ਕ + ਷ = ਕ਷ *

* could further follow other consonant to form cluster

Punjabi

B /b/ ਬ	BH/p/ ਭ	P /p/ ਪ	PH/pʰ/ ਫ	M /m/ ਮ
D /d/ ਦ	DH/t/ ਧ	T /t/ ਤ	TH/tʰ/ ਥ	N /n/ ਨ
Ḏ /d̪/ ਡ	ḎH/t̪/ ਢ	T̪ /t̪/ ਟ	ṮH/t̪ʰ/ ਠ	N̪ /n̪/ ਣ
J /dʒ/ ਜ	JH/tʃ/ ਝ	C /tʃ/ ਚ	CH/tʃʰ/ ਛ	N̄ /ɲ/ ਣ
G /g/ ਗ	GH/k/ ਘ	K /k/ ਕ	KH/kʰ/ ਖ	N̄ /ŋ/ ਙ
L /l/ ਲ	R /ɾ/ ਰ	R̄ /ɾ̄/ ਱	Y /j/ ਯ	W /w/ ਵ
H /h/ ਹ				

Level at beginning,
Falling elsewhere

Subscript form (cluster)

+R  +V  +H 

+H consonant clusters is Level at beginning, Rising elsewhere

Used in loan words only		
F /f/ ਫ	Z /z/ ਜ	KH/x/ ਖ
Ś /ʃ/ ਸ	Ğ /ɣ/ ਗ	Ŀ /ɻ/ ਲ

Independent	A /ə/ ਅ	I /ɪ/ ਇ	U /ʊ/ ਉ	Ē /e/ ਏ	Ō /o/ ਓ	N /m,n,ŋ/ ਨ
Dependent	ਾ	ਿ	ੁ	ੇ	ੈ	ੰ
Independent	Ā /a/ ਆ	Ī /i/ ਈ	Ū /u/ ਊ	Ē /ɛ/ ਐ	Ō /ɔ/ ਔ	Lengthens Consonant
Dependent	ਾ	ਿ	ੁ	ੇ	ੈ	ੰ

Kill inherent vowel

Gujarati

B /b/ બ	BH/bʱ/ ભ	P /p/ પ	PH/pʱ/ ફ	M /m/ મ
D /d/ દ	DH/dʱ/ ધ	T /t/ ત	TH/tʱ/ થ	N /n/ ન
દ /ɖ/ સ	DH/ɖʱ/ ઝ	ત /ʈ/ ટ	TH/ʈʱ/ ઢ	ન /ɳ/ ણ
J /dʒ/ જ	JH/dʒʱ/ ઝ	C /tʃ/ ચ	CH/tʃʱ/ છ	ઝ /ɲ/ ઞ
G /g/ ગ	GH/gʱ/ ઘ	K /k/ ક	KH/kʱ/ ખ	ઝ /ŋ/ ઙ
L /l/ લ	R /r/ ર	Y /j/ ય	V /w/ વ	લ /l/ લ

	A /ə/ એ	I /i/ ઈ	U /u/ ઉ	E /e/ એ	O /o/ ઓ	Â /ɯ/ ઔ	R /ru/ રૂ
Independent	એ	ઈ	ઉ	એ	ଓ	ঔ	રૂ
Dependent	કે	ફે	કુ	કો	કૌ	কু	ৰূ

	Ā /a/ આ	Ī /i/ ઈ	Ū /u/ ઉ	AI /əj/ એই	AU /əv/ ઓই	Ô /l:/ ઔ
Independent	આ	ঈ	উ	এই	ওই	ঔ
Dependent	কা	ফে	কু	কো	কৌ	কু

	Ṃ /a:/ અঁ	Ṅ /ŋ/ અঁ	Ṃ /əh/ અঃ	Ṅ Kill inherent vowel
Independent	ঁ	ঁ	ঃ	ঁ
Dependent	ঁ	ঁ	ঃ	ঁ AUM /om/

consonant clustering rules are similar to Devanagari

Saṅkashtra

B	/b/	ବ	BH/bʰ/	ଭ	P	/p/	ଫ	PH/pʰ/	ଫ	M	/m/	ମୁ		
D	/d/	ଦ	DH/dʰ/	ଧ	T	/t/	ତ	TH/tʰ/	ତୁ	N	/n/	ନୁ		
ଠ	/dʒ/	ଠ	DH/dʒʰ/	ଢ	ତ	/tʃ/	ଢ	TH/tʃʰ/	ଢୁ	ଣ	/ɳ/	ଣୁ		
J	/dʒ/	ଜ	JH/dʒʰ/	ଝ	C	/tʃ/	ଚ	CH/tʃʰ/	ଚୁ	ଞ	/ɲ/	ଞୁ		
G	/g/	ଗ	GH/gʰ/	ଘ	K	/k/	କ	KH/kʰ/	କୁ	ଙ୍ଗ	/ŋ/	ଙ୍ଗୁ		
L	/l/	ଲ	R	/r/	ର	Y	/j/	ଯ	V	/w/	ବୁ	LL	/ɿ/	ଲୁ

A	/ə/	I	/i/	U	/u/	E	/e/	O	/o/	AI	/o/	LU	/ɪ/	R	/r/
Indep.	ବ	ଫ	ତ	ତୁ	ତୁ	ଚ	ଚୁ	କୁ	କୁ	ଙ୍ଗୁ	ଙ୍ଗୁ	ନୁ	ନୁ	ଙ୍ଗୁ	ଙ୍ଗୁ
Dep.	ଗ	ଘ	ଗୁ	ଗୁ	ଗୁ	କୁ	କୁ	ଙ୍ଗୁ	ଙ୍ଗୁ	ନୁ	ନୁ	ନୁ	ନୁ	ନୁ	ନୁ

AA	/a/	II	/i:/	UU	/u:/	E	/æ:/	O	/ɔ:/	AU	/ɔ:/	LUU	/ɪ:/	RU	/r:/
Indep.	ବ	ଫ	ତ	ତୁ	ତୁ	ଚ	ଚୁ	କୁ	କୁ	ଙ୍ଗୁ	ଙ୍ଗୁ	ନୁ	ନୁ	ଙ୍ଗୁ	ଙ୍ଗୁ
Dep.	ଗ	ଘ	ଗୁ	ଗୁ	ଗୁ	କୁ	କୁ	ଙ୍ଗୁ	ଙ୍ଗୁ	ନୁ	ନୁ	ନୁ	ନୁ	ନୁ	ନୁ

ନ୍	/ŋ/	ହ	/əh/	+H/h/											
Dependent	ନ୍ୟ	ନ୍ତ	ନ୍ତୁ	ନ୍ତୁ	ନ୍ତୁ	ନ୍ତୁ	ନ୍ତୁ	ନ୍ତୁ	ନ୍ତୁ	ନ୍ତୁ	ନ୍ତୁ	ନ୍ତୁ	ନ୍ତୁ	ନ୍ତୁ	ନ୍ତୁ

ନ୍

Kill inherent vowel

Bengali

B /b/ ব	BH/bʱ/ ভ	P /p/ প	F /ɸ/ ফ	M /m/ ম
D /d/ দ	DH/dʱ/ ধ	T /t/ ত	TH/tʰ/ থ	N /n/ ন
D̪ /d̪/ ড	D̪H/d̪ʱ/ ঢ	T̪ /t̪/ ট	TH̪/t̪ʰ/ ঠ	N̪ /n̪/ ণ
J /dʒ/ জ	JH/dʒʱ/ ঝ	CH/tʃ/ চ	CHH/tʃʰ/ ছ	Ñ /n̪/ ঞ
G /g/ গ	GH/gʱ/ ঘ	K /k/ ক	KH/kʰ/ খ	NG/ŋ/ ঙ
L /l/ ল	R /r/ র	R̪ /r̪/ ড	R̪H/r̪ʰ/ ঢ	Y /eɔ/ য
	Ô /ə/ ঔ	I /i/ ঈ	U /u/ উ	E /e/ এ
Independent	অ	ই	উ	এ
Dependent	ক	কী	ু	ে

Independent	A /a/ আ	EE /i/ ই	OO/u/ ঊ	OI /ɔi/ ঐ	OU /ɔu/ ঔ
Dependent	কা	কী	ু	ে	ৌ

M /a:/ মং N /ŋ/ নং H /əh/ হং T /t/ তং

ং Prolong Vowel

ঁ Kill inherent vowel

Irregular Cluster that considered as separate alphabets

କ + ସ =
KKH /kkʰ/ କ୍ଷ

ଜ + ଗ୍ର =
GG /gg/ ଗ୍ର

Consonant Cluster Compressed form

	Initial	Final		Initial	Final	Fused
B /b/ ବ	ବ		M /m/ ମ	ମ		କୁଣ୍ଡ
BH/bʰ/ ବ୍ର	ବ୍ର		N /n/ ନ	ନ		ଶୁଣ୍ଡ
P /p/ ପ	ପ		N /n/ ନ	ନ		ଶେଣ୍ଡ
F /ɸ/ ଫ		ଫ	NG/ŋ/ ଙ୍ଗ	ଙ୍ଗ		କୁମ
D /d/ ଦ	ଦ		S /s/ ସ	ସ		କୁନ୍ତ
DH/dʰ/ ଧ		ଧ	SH/ʃ/ ଶ	ଶ		ଶୁଣ୍ଡ
T /t/ ତ	ତ		SH/j/ ଝ	ଝ		ଶୁଣ୍ଡି
TH/tʰ/ ଥ		ଥ	Z /dz/ ଘ		ଜ	ଶୁଣ୍ଡିଲ
T /t/ ଟ		ଟ	L /l/ ଲ	ଲ		ଶୁଣ୍ଡିଲ
J /dʒ/ ଜ	ଜ		R /r/ ର	ର		ଶୁଣ୍ଡିଲ
JH/dʒʰ/ ଝ		ଝ				
G /g/ ଗ	ଗ					
GH/gʰ/ ଘ	ଘ					
K /k/ କ	କ					
KH/kʰ/ ଖ		ଖ				

South India



ଓଡ଼ିଆ

B /b/ ବ	BH/bʰ/ ଭୁ	P /p/ ପ	PH/pʰ/ ଫୁ	M /m/ ମୁ
D /d/ ଦ୍ୟ	DH/dʰ/ ଧୁ	T /t/ ତ୍ୟ	TH/tʰ/ ଥୁ	N /n/ ନୁ
D̥ /d̥/ ଡ୍ୟ	DH/d̥ʰ/ ଛୁ	T̥ /t̥/ ତ୍ୟ	TH/t̥ʰ/ ଥୁ	N̥ /n̥/ ନୁ
J /dʒ/ ଜ୍ୟ	JH/dʒʰ/ ଝୁ	C /tʃ/ ଚ୍ୟ	CH/tʃʰ/ ଛୁ	N̄ /ɲ/ ଣୁ
G /g/ ଗ୍ୟ	GH/gʰ/ ଘୁ	K /k/ କ୍ୟ	KH/kʰ/ ଖୁ	H /h/ ହୁ
L /l/ ଲ୍ୟ	L /l/ ଲ୍ୟ	R /r/ ର୍ୟ	R̥ /r̥/ ର୍ୟ	RH/rʰ/ ର୍ୟ
Y /j/ ଯ୍ୟ	Y /dʒ/ ଯ୍ୟ	V /v/ ବ୍ୟ	V̥ /v̥/ ବ୍ୟ	

Letters in grey are irregular subscript forms used for clusters, where regular subscripts are smaller form of regular consonants. When ର is initial consonant in cluster, '̥' is added to the regular consonant.

A /ə/ ଅ	I /i/ ଇ	U /u/ ଉ	E /e/ ଏ	O /o/ ଓ	ଶ	ର	R /ru/
ଅ	ଇ	ଉ	ଏ	ଓ	ଶ	ର	
ଙ୍ଗ	ଙ୍ଗ	ଙ୍ଗ	ଙ୍ଗ	ଙ୍ଗ	ଙ୍ଗ	ଙ୍ଗ	
ାର୍ଥିକ୍	ଆର୍ଥିକ୍	ଆର୍ଥିକ୍	ଆର୍ଥିକ୍	ଆର୍ଥିକ୍	ଆର୍ଥିକ୍	ଆର୍ଥିକ୍	
ାର୍ଥିକ୍	ଆର୍ଥିକ୍	ଆର୍ଥିକ୍	ଆର୍ଥିକ୍	ଆର୍ଥିକ୍	ଆର୍ଥିକ୍	ଆର୍ଥିକ୍	
ାର୍ଥିକ୍	ଆର୍ଥିକ୍	ଆର୍ଥିକ୍	ଆର୍ଥିକ୍	ଆର୍ଥିକ୍	ଆର୍ଥିକ୍	ଆର୍ଥିକ୍	
ାର୍ଥିକ୍	ଆର୍ଥିକ୍	ଆର୍ଥିକ୍	ଆର୍ଥିକ୍	ଆର୍ଥିକ୍	ଆର୍ଥିକ୍	ଆର୍ଥିକ୍	

କିଳୀ କିଳୀ କିଳୀ କିଳୀ କିଳୀ କିଳୀ କିଳୀ କିଳୀ

Irregular Clusters

କ + ଷ = ଷ
ଟ + ଛ = ଛୁ
ଟ୍ୟ + ଞ୍ୟ = ଞ୍ୟୁ
ଞ୍ୟ + ଟ = ଞ୍ୟ
ଞ୍ୟ + ଛ = ଞ୍ୟୁ
ଞ୍ୟ + ଞ୍ୟ = ଞ୍ୟୁ
ଞ୍ୟ + ଞ୍ୟ = ଞ୍ୟୁ
ଟ + କ = କୁ
ଟ + ମ = ମୁ
ଦ୍ୟ + ଭୁ = ଭୁ
ନୁ + ଧ = ଧୁ
ମୁ + ପ = ପୁ
ମୁ + ଫୁ = ଫୁ

తెలుగు

B /b/ బ	BH/bʰ/ భ	P /p/ ప	PH/pʰ/ ఫ	M /m/ మ
D /d/ ద	DH/dʰ/ ధ	T /t/ త	TH/tʰ/ ఠ	N /n/ న
D̥ /d/ ద	DH/dʰ/ ధ	T̥ /t/ ట	TH/tʰ/ ఠ	N̥ /n/ ణ
J /dʒ/ జ	JH/dʒʰ/ ధ్య	C /tʃ/ చ	CH/tʃʰ/ చ్చ	Ñ /ɲ/ ఝ
G /g/ గ	GH/gʰ/ ఘ్య	K /k/ క	KH/kʰ/ ఖ	N̥ /ŋ/ ఙ
L /l/ ల	L̥ /l/ ళ	R /r/ ర	R̥ /r/ ఱ	Y /j/ య
V /v/ వ				

Grey subscripts are used for cluster

A /a/ అ	I /i/ ఇ	U /u/ ఉ	E /e/ ఎ	O /o/ ఒ	AI /aj/ ఏ	L /lu/ లు	R /ru/ రు
Ind.	అ	ఇ	ఉ	ఎ	ఒ	లు	రు
Dep.	శ	శ	శు	శ	శ	ళ	ళు
Ā /a:/ ఆ	Ī /i:/ ఈ	Ū /u:/ ఊ	Ē /e:/ ఎస్	Ō /o:/ ఒస్	AU /aw/ ఏస్	Ľ /lu:/ లూ	Ŗ /ru:/ రూ
Ind.	ఆ	ఈ	ఊ	ఎస్	ఒస్	లూ	రూ
Dep.	శ	శ	శు	శ	శ	ళ	ళు
M /m/ మ	N /n/ న	H /h/ హ	శో	శి	శు	లూ	రూ
శో	శి	శు	శు	శు	శు	లూ	రూ
			శు	శు	శు	లూ	రూ

Kill inherent vowel

Top ^ is usually omitted when vowels written on top appended

ಕನ್ನಡ

B /b/ ಒ	BH/bʰ/ ಭ	P /p/ ಪ	PH/pʰ/ ಫ	M /m/ ಮ
D /d/ ದ	DH/dʰ/ ಧ	T /t/ ತ್ತ	TH/tʰ/ ಠ	N /n/ ನ್ನ
ಂ/d/ ಂ	ಂ/dʰ/ ಂ	ತ/t/ ತ	ತ/tʰ/ ತ	ಣ/n/ ಣ
J /dʒ/ ಜ	JH/dʒʰ/ ರ್ಯಾ	C /tʃ/ ಚೆ	CH/tʃʰ/ ಟ್ರೆ	ಞ/n/ ಞ್ಣ
G /g/ ಗ	GH/gʰ/ ಫ್ರೆ	K /k/ ಕೆ	KH/kʰ/ ಬ್ರೆ	NG/ŋ/ ಜ್ಜಿ
L /l/ ಲ್ಲಿ	ಂ/l/ ಳಿ	R /r/ ರ್ರಿ	Y /j/ ಯ್ಯಿ	V /v/ ವ್ವಿ

Grey letters are special subscript form,
otherwise a small letter without top stroke is used as subscript form

	A /a/	I /i/	U /u/	E /e/	O /o/	AI /aj/	L /lu/	R /ru/
Ind.	ಅ	ಇ	ಉ	ಎ	ಒ	ಐ	ಔ	ಇ
Dep.	ಂ	ಂ	ಂ	ಂ	ಂ	ಂ	ಂ	ಂ
	Ā /a:/	Ī /i:/	Ū /u:/	Ē /e:/	Ō /o:/	AU /aw/	ಂ /lu:/	ರ /ru:/
Ind.	ಆ	ಈ	ಉ	ಎ	ಒ	ಾಯ್	ಔ	ಇ
Dep.	ಂ	ಂ	ಂ	ಂ	ಂ	ಂ	ಂ	ಂ
	M /ã/	H /h/						
	ಂ	ಂ	ಂ	ಂ	ಂ	ಂ	ಂ	ಂ
						Kill inherent vowel		

Melayalam

B /b/ ബ	BH/bʰ/ ഭ	P /p/ പ	PH/pʰ/ ഫ	M /m/ മ	
D /d/ ദ	DH/dʰ/ ധ	T /t/ ത	TH/tʰ/ ഠ	N /n/ ന	S /s/ സ
ഡ /ɖ/ ഡ	ഡH/ɖʰ/ ഡഘ	ത /ʈ/ ത	ഠ/ʈʰ/ ഠ	ഞ /ɳ/ ഞ	ശ /ʂ/ ശ
ജ /ʐ/ ജ	JH/ʐʰ/ ജഘ	ച /tʃ/ ച	ചH/tʃʰ/ ചഠ	ഞ /ɲ/ ഞ	ശ /ʃ/ ശ
ഗ /g/ ഗ	GH/gʰ/ ഗഘ	ക /k/ ക	KH/kʰ/ കഠ	ഓ /ŋ/ ഓ	H /h/ ഹ
ല /l/ ല	ല /l/ ല	എ /ɛ/ എ	R /r/ ര	എ /ɾ/ എ	
Y /j/ യ	V /v/ വ	പ /p/ പ			

Letters in grey are used in cluster

Also subscript may be written underneath in smaller size.

Clusters may also be formed by sharing strokes

Finals

N /n/ ന	ണ /ɳ/ ണ	ം /m/ ം	എ /ɛ/ എ	എ /ɔ/ എ	എ /ɑj/ എ	ര /r/ ര	ര /ɾ/ ര	കീ /k/ കീ
അ /a/ അ	ി /i/ ഇ	ഉ /u/ ഊ	എ /e/ എ	ഔ /o/ ഔ	ആ /aj/ ആ	റ /r/ റ	റ /ɾ/ റ	മ /m/ മ
അരു /ar/ അരു	ഈ /i:/ ഈ	ഉരു /u:/ ഉരു	എരു /e:/ എരു	ഔരു /o:/ ഔരു	ആരു /aw/ ആരു	റു /ɾ/ റു	റു /ɾ/ റു	കു /k/ കു
ക്കു /k/ കു	ക്കീ /k/ കീ	ക്കു /k/ കു	ക്കു /k/ കു	ക്കു /k/ കു	ക്കു /k/ കു	ക്കു /k/ കു	ക്കു /k/ കു	ക്കു /k/ കു
അരു /ar/ അരു	ഈ /i:/ ഈ	ഉരു /u:/ ഉരു	എരു /e:/ എരു	ഔരു /o:/ ഔരു	ആരു /aw/ ആരു	റു /ɾ/ റു	റു /ɾ/ റു	കു /k/ കു
കു /k/ കു	കീ /k/ കീ	കു /k/ കു കു /k/ കു	കു /k/ കു					

കു /k/ കു

കു /k/ കു

കു /k/ കു

കു /k/ കു

കു /k/ കു

കു /k/ കു

കു /k/ കു

കു /k/ കു

Irregular Clusters

ച+ച=ച്ച
വ+വ=വ്വ

ക+ക=ക്ക
ഡ+ഡ=ഡ്ഡ

ഓ+ഓ=ഓം
ഒ+ഒ=ഒം

ଶବ୍ଦାଳ୍ୟରୀ

B /b/ ବ	P /p/ ପ	M /m/ ମ
D /d/ ଦ	T /t/ ତ	N /n/ ନ
DD/d/ ଦ୍ଵ	TT/t/ ତ୍ଵ	NN/n/ ନ୍ତି
J /j/ ଜ	CH/c/ ଚ	NY/n/ ନ୍ତି
G /g/ ଗ	K /k/ କ	NG/n/ ନ୍ତି
L /l/ ଲ	R /r/ ର	RR/r/ ର୍ତ୍ତ
Y /j/ ଯ	W /w/ ଉ	V /w/ ଉଁ
		H /h/ ହ

Consonants in grey boxes became p', t', c', k' (unreleased) when followed by ୭

A /ɔ/ ଅ AA/a/ ଅୟ I /i/ ଇ U /u/ ଉ E /e/ ଇ O /o/ ଓ
 /ɔ/ ଅ. /ə/ ଅୟ. /ɛ/ ଇ.

M /~/ ମ୍ବ Long Vowel ଉଷ୍ଣ

Lopcha

B /b/ ⚜	P /p/ ⚝	PH /pʰ/ ⚞	M /m/ ⚠	F /f/ ⚡
D /d/ ⚤	T /t/ ⚦	TH /tʰ/ ⚨	N /n/ ⚢	S /s/ ⚣
DZ /z/ ⚥	TS /ts/ ⚟	TSH /tʂʰ/ ⚪		SH /ʂ/ ⚫
J /ʒ/ ⚧	C /tʃ/ ⚩	CH /cʰ/ ⚮	NY /ɲ/ ⚯	H /h/ ⚰
G /g/ ⚫	K /k/ ⚭	KH /kʰ/ ⚯	NG /ŋ/ ⚱	' /ʔ/ ⚱
L /l/ ⚛	R /r/ ⚎	Y /j/ ⚏	V /v/ ⚒	W /w/ ⚙

Clusters

BL /bl/ ⚅	PL /pl/ ⚊	ML /ml/ ⚇	FL /fl/ ⚋	+R ⚱
GL /gl/ ⚫	KL /kl/ ⚭	HL /hl/ ⚯		+Y ⚱

Finals

+M ⚱	+N ⚲	+NG ⚳	+NG ⚴
+K ⚱	+T ⚲	+P ⚳	+L ⚱

Vowels

A /a/ ⚱	I /i/ ⚲	U /u/ ⚳	E /e/ ⚱	O /o/ ⚴
AA /a:/ ⚱	II /i:/ ⚲	UU /u:/ ⚳	EE /e:/ ⚱	OO /o:/ ⚴

ଓଡ଼ିଆ ଶ୍ରୀମଦ୍ଭଗବତ

B /b/ ବ	BH /b ^h / ବହ	P /p/ ପ	PH /p ^h / ଫହ	M /m/ ମ	S /s/ ସ
D /d/ ଦ	DH /d ^h / ଦହ	T /t/ ତ	TH /t ^h / ଥହ	N /n/ ନ	SH /ʃ/ ଶ
J /j/ ଜ	JH /j ^h / ଜହ	C /c/ ଚ	CH /c ^h / ଚହ	NY /n/ ନ୍ୟ	SS /ʃ/ ଷ
G /g/ ଗ	GH /g ^h / ଗହ	K /k/ କ	KH /k ^h / କହ	NG /ŋ/ ଙ୍ୟ	H /h/ ହ
L /l/ ଲ	R /r/ ର	Y /j/ ଯ	W /w/ ବୁ	-	- /-/ ମୁ

Clusters

+R **Z_ା** +Y **Z_ି** +W **Z_{ିବ}**

Finals

+M	Zାଫ	+N	Zବ	+NG	Zବୋ	+/~	Zବୁ	+?	Zବୁ	+:	Zବୁ
+K	Zକ	+T	Zବୁ	+P	Zବୁ	+L	Zବୁ	+R	Zବୁ	+:	Zବୁ

Vowels

A /a/ Zା	I /i/ Zି	U /u/ Zବୁ	EE /e/ Zବୁ	OO /o/ Zବୁ	ଇଂଗ୍ରେଶୀ
E /ɛ/ Zି	O /ɔ/ Zବୁ	ଇଂଗ୍ରେଶୀ	AI /ai/ Zବୁ	AU /au/ Zବୁ	ଇଂଗ୍ରେଶୀ

සිංහල

MB/ <i>m̪b/ ම්බ</i>	B /b/ බ	BH/ <i>b̪/ බ්බ</i>	H /b/ භ	P /p/ ප්ප	PH/ <i>p̪/ ප්ප</i>	V /v/ ඩ්ප	M /m/ ම්ම
ND/ <i>n̪d/ න්ද</i>	D /d/ ද	DH/ <i>d̪/ ද්ධ</i>	D /d/ ද	T /t/ ත	TH/ <i>t̪/ ත්ත</i>	G /g/ ග්ග	N /n/ න්න
ND/ <i>n̪d/ න්ධ</i>	D /d/ ද	DH/ <i>d̪/ ද්ධ</i>	D /d/ ද	T /t/ ත	TH/ <i>t̪/ ත්ත</i>	G /g/ ග්ග	N /n/ න්ත
NJ /n̪dʒ/ න්ජ	J /dʒ/ ජ්ජ	JH /dʒ/ ක්ජේ	C /tʃ/ ඡ්ජේ	CH /tʃ/ ඡ්ජේ	Ñ /n̪/ න්ජේ	N /n/ න්ජේ	Ñ /n/ න්ජේ
NG/ <i>n̪g/ න්ජේ</i>	G /g/ ග්ජේ	GH /g/ ශ්ජේ	K /k/ ක්ජේ	KH /k/ ත්ජේ	GN /gn/ ග්ජේ	N /n/ න්ජේ	Ñ /n/ න්ජේ
S /s/ ස්සී	Š /s/ ස්ශී	Ś /s/ ස්ශී	H /h/ හ්හා	G /h/ හ්හා	GN /gn/ ග්ජේ	F /f,ɸ,p/ එවා	F /f,ɸ,p/ එවා
L /s/ ල්ල	LL /s/ ල්ල්ල	R /s/ ර්ර	Y /h/ ය්යා	V /v/ බ්බා	W /w/ ට්ටා	F /f,ɸ,p/ එවා	F /f,ɸ,p/ එවා
+Y	අු	+R	R+	ඊ			

A /a/ අ	Æ /æ/ ඇ	I /i/ ණ්	U /u/ ම්මා	E /e/ එ	O /o/ ම්මා	AI /ai/ අයි	උ /ɯ/ උ	R /r/ රා
අ	අු	ඉ	ඉ	උ	඘	එළු	උඟා	උඟා
ක	කැ	කී	කු	කේ	කෙ	කෙකා	කෙකා	කෙකා
Ā /a:/ අා	ĀE /æ:/ ඇා	Ī /i:/ එ්	Ū /u:/ ම්මා	Ē /e:/ එ්	Ō /o:/ ම්මා	AU /au/ අයා	උ /ɯ:/ උා	R /r:/ රා
අා	අු	ඉ	ඉ	උ	඘	එළා	උඟා	උඟා
කා	කැ	කී	කු	කේ	කෙ	කෙකා	කෙකා	කෙකා

Transparent consonants/vowels are only presented in loan words

Irregular Consonant Clusters

ක+ව= ක්ව	න+ල්= න්ල්	න+ද්= න්ද්	ද්+ඩ්= ද්ඩ්
ක+ඩ්= ක්ඩ්	න+ව= න්ව	න+ඩ්= න්ඩ්	ද්+ඩ්= ද්ඩ්

தமிழ்

P /p/ பு T /t/ து R /t/ று T /t/ து L C /tʃ/ சு K /k/ கு

M /m/ மு N /n/ நு ன் /n/ னே ன் /n/ னை ன் /n/ னு ன் /n/ னெ

ல் /l/ லு ட் /v/ ளை R /r/ ரு ட் /v/ ளு ய் /j/ யை V /v/ வை

Consonants only used in modern era

S /s/ ஸு ஷ் /ʃ/ ஷி ஶ் /ʂ/ ஶபு H /h/ ஹு J /dʒ/ ஜி

	A /ʌ/ அ	I /i/ இ	U /u/ உ	E /e/ எ	O /o/ ஒ	AI /aɪ/ ஐ
Independent						
Dependent	க	கி	கு	கெ	கோ	கை

	Ā /a:/ ஆ	Ī /i:/ ஈ	Ū /u:/ ஊ	Ē /e:/ ஏ	Ō /o:/ ஒ	AU /au/ ஓளா
Independent						
Dependent	கா	கி	கு	கே	கோ	கெளா

Position, size and shape of I and Ī varies among consonants but it is recognizable
U has three styles:  for each form, ū are:



respectively. With the exception of kū (see above).

Kill inherent vowel 

North West Asia



Türkçe

B	/b/	P	/p/	V	/v/	F	/f/	M	/m/
D	/d/	T	/t/	Z	/z/	S	/s/	N	/n/
C	/dʒ/	Ç	/tʃ/	J	/ʒ/	Ş	/ʃ/		
G	/g, g̊*/	K	/k, k̊*/			H	/h, ɦ̄/		
L	/l, ɫ̊*/^/	R	/ɾ/	Y	/j/				

* = when before E, I, Ö, Ü

^ = when after back vowels at the end of word

` = when before consonants and at the end of word

Ğ /j/ before E, I, Ö, Ü
silent before other vowels
/:/ (lengthening preceding vowels) otherwise

A	/a/	Â	/a:/, /ja/, /ja:/	E	/e/
I	/i/	Î	/i:/	Ü	/y/
U	/u/	Û	/u:/, /ju/, /ju:/	İ	/w/
O	/o/			Ö	/ø/

Georgian

B	/b/	ბ	P'	/p'/	პ	P	/pʰ/	პ	V	/v/	ვ	3		
D	/d/	დ	T'	/t'/	თ	T	/tʰ/	თ						
DZ	/dz/	ძ	TS'	/ts'/	წ	TS	/tsʰ/	წ	Z	/z/	ზ	S	/s/	ს
J	/dʒ/	ჯ	CH'	/tʃ'/	ჭ	CH	/tʃʰ/	ჭ	ZH	/ʒ/	ჟ	SH	/ʃ/	შ
G	/g/	გ	K'	/k'/	კ	K	/kʰ/	კ						
			Q'	/q'/	ყ				GH	/χ/	ხ	KH	/χ/	ხ
L	/l/	ლ	R	/r/	რ	H	/h/	ჰ	M	/m/	მ	N	/n/	ნ
A	/ɑ/	ა	I	/i/	ი	U	/u/	უ	E	/ɛ/	ე	O	/ɔ/	ო

Апъсуа бызшәа

В /b/	Б	Р /p'/	П	Р /pʰ/	П	Վ /v/	В	Ֆ /f/	Փ
Д /d/	Д	Տ /t'/	Տ	Տ /t/	Տ	Զ /z/	З	Ս /s/	Ը
Ջ /dz/	Ջ	Չ /tʂʰ/	Չ	Չ /tʂ'/	Չ	Ժ /z/	Ж	Շ /ʂ/	Ռ
Ջ' /dʒ/	Ջ'	Չ	Չ	Կ /tʃ'/	Կ	Ժ' /ʒ/	ЖЬ	Շ' /ʃ/	Ռ
Յ /dʒ/	Յ	Ց /tʂʰ/	Ց	Ց /tʂ'/	Ց	ՅԹ /ʒʰ/	ՅԹ	Շ° /ʃ/	ՌԹ
ՅԹ /dʒʰ/	ՅԹ	Ց° /tʂʰ/	ՑԹ	Ց° /tʂ'/	ՑԹ				
Գ /g/	Գ	Կ /kʰ/	Կ	Կ /k'/	Կ	Խ /χ/	Խ	Խ /h/	Խ
Գ /v/	Գ			Կ /q'/	Կ			Օ /ɥ/	Օ
Մ /m/	Մ	Ն /n/	Ն	' /j/	Ե	՞ /w/	Թ		
Լ /l/	Լ	Ր /r/	Ր	Ի /j/	Ի	Ո /w/	Յ		
Ա /ɑ/	Ա	Ե /ɛ/	Ե	Օ /ɔ/	Օ				

Armenian

B	/b/	Բ բ	P	/p/	Պ պ	P'	/pʰ/	Փ փ	V	/v/	Վ վ	F	/f/	Ֆ ֆ
D	/d/	Դ դ	T	/t/	Տ տ	T'	/tʰ/	Թ թ						
J	/dz/	Ջ ջ	C	/ts/	Ծ ծ	C'	/tʂʰ/	Ց ց	Z	/z/	Զ զ	S	/s/	Ս ս
Յ	/dʒ/	Յ յ	Č	/tʃ/	Ճ ճ	Č'	/tʃʰ/	Ճ ճ	Ž	/ʒ/	Ժ ժ	Ժ	/ʃ/	Շ շ
G	/g/	Գ գ	K	/k/	Կ կ	K'	/kʰ/	Ք ք	Է	/β/	Ե ե	X	/χ/	Խ խ
M	/m/	Մ մ	N	/n,ŋ/	Ն ն				H	/h/	Հ հ			
L	/l/	Լ լ	R	/r/	Ր ր	R	/ɾ/	Ր ր	Յ	/j/	Յ յ	Վ	/v/	Վ վ
A	/a/	Ա ա	Ո օ	/ə/	Ո օ	Լ լ	/i/	Ի ի	Ի ի	/ɛ/ /jɛ*/	Ե ե	Օ օ	/o/ /vo*/	Ո ո
											Է է	Օ օ		
											ԵՎ /ev/ /jev*/	Ա		

*When appeared in word-initial

Azerbaijani

B	/b/	P	/p/	V	/v/	F	/f/	M	/m/
D	/d/	T	/t/	Z	/z/	S	/s/	N	/n/
C	/dʒ/	Ç	/tʃ/	J	/ʒ/	Ş	/ʃ/		
G	/ɟ/	K	/c,ç,k/	Ğ	/ɣ/	X	/x/		
Q	/g/					H	/h/		
L	/l/	R	/r/	Y	/j/				

A /a/ Θ /æ/

I /u/ İ /ɪ/

U /u/ Ü /y/

E /e/

O /ɔ/ Ö /œ/

South West Asia & North Africa



العَرَبِيَّةُ Arabic

final form medial form initial form

B /b/ ببب	D /d/ ضضض	D /d/ ددد	DH /ð/ ذذذ	M /m/ ممم	L /l/ للل	F /f/ ففف
T /tˤ/ ططط	T /t/ تنت	TH /θ/ ثثث	K /k/ ككك	N /n/ ننن	Q /q/ قفق	Z /z/ ززرز
Z /zˤ/ ظظظ	Z /z/ ززز	J /dʒ/ ججج	GH /χ/ غغغ	' /ѓ/ ععع	H /h/ ههه	S /s/ سسس
S /sˤ/ صصص	S /s/ ششش	SH /ʃ/ ششش	GH /χ/ خخخ	W /w/ وwooو	H /h/ ححح	W /w/ ححح
Y /j/ ييي	Y /j/ ييي	' /ѓ/ ععع	H /h/ ههه			

Additional Consonants

-H /ah/ ة	' /ؤ/ (Glottal Stop)	ء	Gemination (doubling the consonant)	ل+Alif	لألا
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Alif (أـاـاـاـاـ)، different pronouciations:

A or I (initial)	'A or 'U (initial) أ	'I إ	'A آ
Ā (other)	'A (other)	إ	آ

Vowels (diacritics of A,I,U are only written for educational purpose, c=consonant)

A /a/ بـ	I /i/ بـ	U /u/ بـ
Ā /a:/ =c with A+Alif	Ī /i:/ =c with I+Y	Ū /u:/ =c with U+W
or =c with A+ى		
or بـ (dagger alif)	AY /aj/ =c with A+Y	No Vowel بـ
	AW /aw/ =c with A+W	

Hebrew

Grey letters are used in word final

B /b/ ב	P /p/ פ	V /v/ ב	F /f/ פ	M /m/ מ
D /d/ ד	T /t/ ט	Z /z/ ז	S /s/ ס	N /n/ נ
	SH /ʃ/ שׁ	T /t/ ת	S /s/ שׂ	TS /ts/ צׂ
G /g/ ג	K /k/ כּ		KH /χ/ כּ	
	K /k/ קּ	' /גּ/ גּ	H /ħ/ חּ	
		' /ךּ/ךּ	Ā /ħ/ Ā	Ā /ħ/ Ā
L /l/ ל	R /ʁ/ ר	Y /j/ י	V /v/ וּ	

Consonants used in loan words

Ğ /dʒ/ גְּ	Č /tʃ/ צְּ	Ž /x/ חְּ	H /ɣ/ גָּ	G /ʒ/ זְּ
DH /ð/ דְּ	TH /θ/ תְּ			

Vowel points

(only used for educational purpose)

Long Short Very Short

A /ä/ אַ	אֶ	אָ
I /i/ אֵ	אִ	אַ
U /u/ אֹ	אַ	אָ
E /e/ אֵּ	אֵּ	אָּ
O /o/ אָּ	אָּ	אַּ

Grey parts indicate the position of consonant

While writing without vowels brings difficulty in reading, and denoting vowels with dots are considered redundant, Y and V are added to the position of vowel to indicate the vowel.

This is called “ktiv male” and is the mostly used way to write Hebrew.

General Rules:
 /i/ (sometimes, /e/) are indicated by /j/
 /o/ and /u/ are indicated by /v/

in the middle of a word, original consonants ' and ּ are doubled as ' and ּ to avoid ambiguity.

Assyrian

This language is currently unavailable

þ ð œ ø ß ÷ þ

B /b/ Ø

F /f/ H

M /m/ C

D /d/ A

T /t/ +

Z /z/ *

S /s/ O

N /n/ I

D /ð/ E

T /tʃ/ E

Z /zʃ/ *

S /sʃ/ O

DJ /dʒ/ X

TC /tʃ/ E

J /ʒ/ I

C /ʃ/ C

G /g/ X

K /k/ K

GH /ɣ/ U

H /h/ Ø

X /χ/ X

Q /q/ Z

Â /ã/ N

H /ħ/ K

L /l/ M

R /r/ O

Y /j/ S

W /w/ U

R /r̩/ Q

A /æ/ o

I /i/ ö

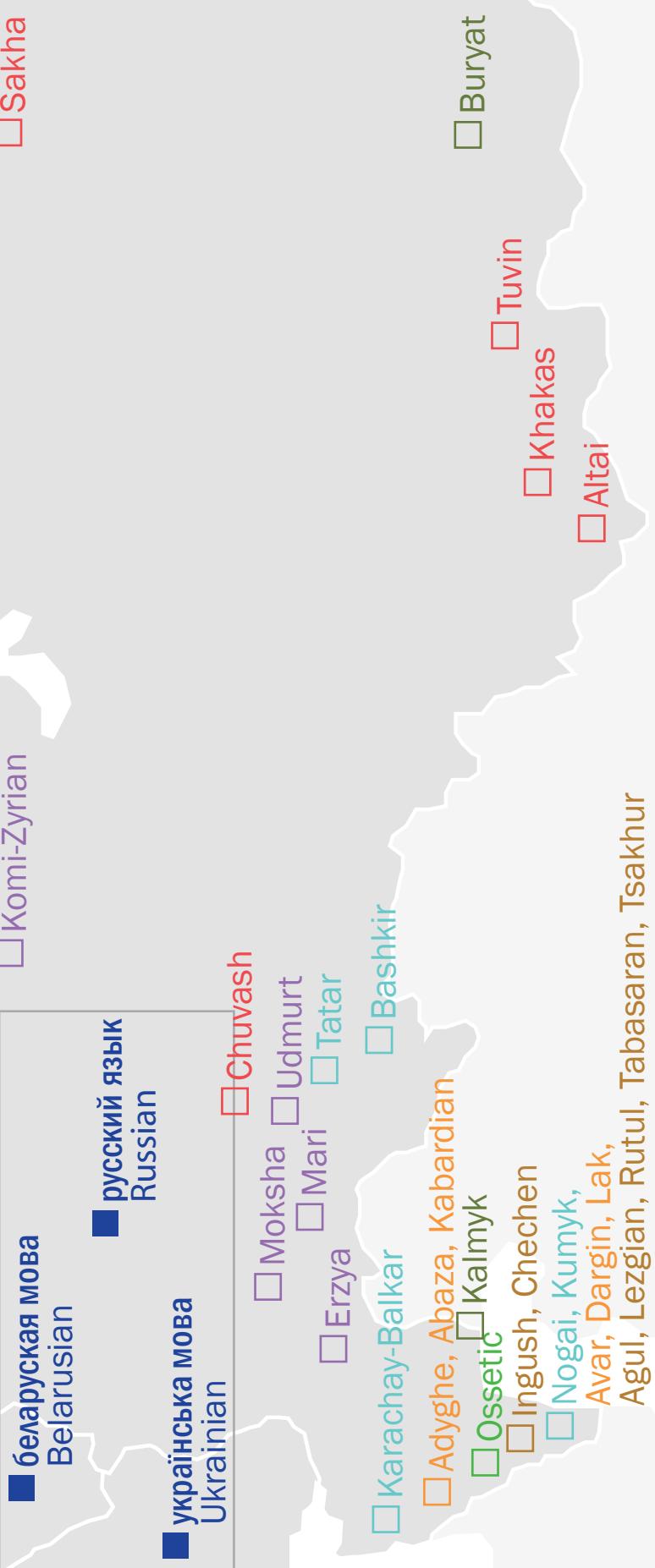
U /ʊ/ ξ

E /ə/ ö

EUROPE

Russia, Belarus & Ukraine

These three languages are partially mutual intelligible



русский язык

В /b/	Б	Р /p/	П	В /v/	В	Ф /f/	Ф	М /m/	М
Д /d/	Д	Т /t/	Т	З /z/	З	С /s/	С	Н /n/	Н
Ч /tʂ/	Ч	Ц /ts/	Ц	Ж /ʐ/	Ж	Ш /ʂ/	Ш	ШЧ /ʂʂ/	ШЧ
Г /g/	Г	К /k/	К	Х /χ/	Х				
Л /l/	Л	Р /r/	Р						
А /a/	А	И /i/	И	У /u/	У	Е /e/	Э	О /o/	О
Я /ja/	Я	Ј /j/	Ј	ЈУ /ju/	ЈУ	Е /je/	Е	ЈО /jo/	Ё
Ы /ɨ/	Ы	Ӣ /i/	Ӣ	Ӣ	Ӣ	Ӣ	Ӣ	Ӣ	Ӣ
				"	(separate syllables)	Ӣ	Ӣ	Ӣ	Ӣ

Small Letter of Cyrillic Alphabet

(only letters with significant differences between Capital and small letter shown)

Аа Бб Фф Ёё Тһ

Беларуская мова

В /b/	Б	Р /p/	П	В /v/	В	Ф /f/	Ф	М /m/	М
Д /d/	Д	Т /t/	Т	З /z/	З	С /s/	С	Н /n/	Н
Ч /ts/	Ч	Ц /ts/	Ц	Ж /z/	Ж	Ш /ʂ/	Ш	ШЧ /ʂʂ/	ШЧ
Г /ɣ/	Г	К /k/	К	Х /χ/	Х				
Л /l/	Л	Р /r/	Р	У /w/	Ү				

Ž /ʐ/ ЗЬ	Ś /ʂ/ СЬ	Ł /ɿ/ ЛЬ
DZ /dʐ/ ДЗ	DŽ /dʐ/ ДЗЬ	Ć /tʂ/ ЦЬ
DŽ /dʒ/ ДЖ		Ń /ɲ/ НЬ

A /a/ А	I /i/ И	U /u/ У	E /e/ Э	O /o/ О
Я /ja/ Я	Ј /j/ Ј	ЈУ /ju/ ЈУ	Е /jε/ Е	ЈО /jo/ ЈО
Ы /i/ Ы	' /j/ Ђ	" /'j/ Ѓ	(separate syllables)	,

Українська Ukrainian

В /b/	Б	Р /p/	П	В /v/	В	Ф /f/	Ф	М /m/	М
Д /d/	Д	Т /t/	Т	З /z/	З	С /s/	С	Н /n/	Н
Ч /tʂ/	Ч	Ц /ts/	Ц	Ж /ʐ/	Ж	Ш /ʂ/	Ш	ШЧ /ʂʂ/	ШЧ
Г /g/	Г	К /k/	К	Х /x/	Х	Ң /h/	Ң		
Л /l/	Л	Р /r/	Р						

А /a/	А	І /i/	І	У /u/	У	YE /je/	Е	О /o/	О
Я /ja/	Я	Ј /j/	Ј	Ю /ju/	Ю	E /je/	Е	YI /ji/	Ї

' /j/ Ъ " (separate syllables) '

East Europe



Eesti keel

B	/b/	P	/p/	V	/v/	M	/m/
D	/d/	T	/t/	S	/s/	N	/n/
G	/g/	K	/k/	H	/h/		
L	/l/	R	/r/	J	/j/		

Only used in loan words

F	/f/	Š	/ʃ/	Z	/z/	Ž	/ʒ/
C	/ts/	Q	/k/	W	/v/	X	/ks/

A	/a/	I	/i/	U	/u/	E	/e/	Ö	/ø/
Ä	/æ/	Ü	/y/	Õ	/ɤ/	Ö	/ø/		

Only used in loan words

Y /y/

latviešu valoda

B	/b/	P	/p/	V	/V/	F	/f/	M	/m/
D	/d/	T	/t/	Z	/z/	S	/s/	N	/n/
DŽ	/dʒ/	Č	/tʃ/	DZ	/dz/	C	/ts/		
Ģ	/ɟ/	Ķ	/č/	Ž	/ʒ/	Š	/ʃ/	Ņ	/ɲ/
G	/g/	K	/k/			H	/χ/		
L	/l/	Ļ	/ļ/	R	/r/	J	/j/		

A /a/ I /i/ U /u/ E /e,æ/ O /ua,o,o:/

a bar above vowel indicates long vowel, with the exception of O.

lietuvių kalba

B	/b/	P	/p/	V	/V/	F	/f/	M	/m/
D	/d/	T	/t/	Z	/z/	S	/s/	N	/n/
DŽ	/dʒ/	Č	/tʃ/	DZ	/dz/	C	/ts/		
				Ž	/ʒ/	Š	/ʃ/		
G	/g/	K	/k/	H	/ɣ/	CH	/χ/		
L	/ɬ/	R	/r/	J	/j/				

A	/e,ä:/	U	/u/	O	/ɔ,o:/	I	/ɪ/	E	/ɛ,æ:/
Ą	/ä:/	Ų,Ū	/u:/			Į,Υ	/i:/	Ę	/æ:/
								Ė	/e:/

consonants before these vowels are palatalized (+j/)

polish

B /b/	P /p/	W /v/	F /f/	M /m/
D /d/	T /t/			
DZ /dz/	C /ts/	Z /z/	S /s/	N /n/
DŹ /dż/	Ć /tɕ/	Ż /ʐ/	Ś /ɕ/	Ń /ɲ/
DŻ /dʐ/	CZ /tʂ/	Ż, RZ /ʐ/	SZ /ʂ/	
G /g/	K /k/		H, CH /χ/	
L /l/	R /r/	J /j/	Ł /w/	

voiced consonants (column 1 and 3) often represent voiceless consonants (on their right) at the end of word. less frequently, voiceless consonants could also represent voiced consonants.

the consonants in row 3+I (DZI, CI, ZI, SI, NI) are pronounced as row 4 (DŻ, Ć, Ż, Ś, Ñ)

A /a/	E /ɛ/	I /i/	U /u/	O /ɔ/
Ą /ɔ/	Ę /ɛ/	Y /ɨ/	Ó /u/	

when Ą and Ę before a consonant in column 1 to 4, pronounced as /ɔ/ or /ɛ/ + /m/ (row 1) /n/ (row 2-5) /ŋ/ (row 6)

čeština

B	/b/	P	/p/	V	/v/	F	/f/	M	/m/
D	/d/	T	/t/	Z	/z/	S	/s/	N	/n/
Ď	/ɟ/	Ť	/č/					Ň	/ɲ/
C	/ts/	Č	/tʃ/	Ž	/ʒ/	Š	/ʃ/		
G	/g/	K	/k/	CH	/χ/	H	/h/		
L	/l/	R	/r/	Ř	/ř/	J	/j/	X	/ks/

1. voiced consonants (column 1 and 3) are pronounced voiceless (consonants to their right in column 2 and 4) at word final.

2. voiced consonant pronounced voiceless before voiceless consonant. voiceless consonant pronounced voiced before voiced consonant.

3. (DI, TI, NI), (DÍ, TÍ, NÍ) or (DĚ, TĚ, NĚ) pronounced as (Ď, Ť, Ň)

4. (B, P, V, F) are palatalized (+/j/) before Ě, M pronounced as /mj/ before Ě.

A	/a/	I, Y	/ɪ/	U	/u/	E	/ɛ/	O	/ɔ/
Á	/a:/	Í, Ý	/i:/	Ú	/u:/	É	/ɛ:/	Ó	/ɔ:/
				Ů	/u:/	Ě	/ɛ/		

slovenčina

B	/b/	P	/p/	V, W	/v/	F	/f/	M	/m/
D	/d/	T	/t/	Z	/z/	S	/s/	N	/n/
Ď	/ɟ/	Ť	/č/	Ž	/ʒ/	Š	/ʃ/	Ň	/ɲ/
DŽ	/dʒ/	Č	/tʃ/	DZ	/dz/	C	/ts/		
G	/g/	K	/k/	CH	/χ/	H	/h/		
L	/l/	Ľ	/ʎ/	R	/r/	J	/j/	Q	/kv/
Ľ	/l:/			Ŕ	/r:/			X	/ks/

1. voiced consonants (column 1 and 3) are pronounced voiceless (consonants to their right in column 2 and 4) at word final.

2. before E, I, IE, IA (Ď, Ť, Ň, Ľ) are written as (D, T, N, L)

A	/a/	I, Y	/ɪ/	U	/u/	E	/ɛ/	O	/ɔ/
Á	/a:/	Í, Ý	/i:/	Ú	/u:/	É	/ɛ:/	Ó	/ɔ:/
Ä	/æ/							Ô	/uo/

Hungarian

B	/b/	P	/p/	V, W	/v/	F	/f/	M	/m/
D	/d/	T	/t/	Z	/z/	SZ	/sz/	N	/n/
GY	/ɟ/	TY	/c/	ZS	/ʒ/	S	/ʃ/	NY	/ɲ/
DZS	/dʒ/	CS	/tʃ/	DZ	/dz/	C	/ts/		
G	/g/	K	/k/			H	/h/	Q	/kv/
L	/l/	LY	/j/	R	/r/	J	/j/	X	/ks/

A	/ɒ/	I, Y	/i/	U	/u/	Ü	/y/	E	/ɛ/	O	/ɔ/	Ö	/ø/
Á	/a:/	Í	/i:/	Ú	/u:/	Ü	/y:/	É	/e:/	Ó	/ɔ:/	Ő	/ø:/
Ä	/æ/							Ë	/e/				

Românian

B	/b/	P	/p/	V	/v/	F	/f/	M	/m/
D	/d/	T	/t/	Z	/z/	S	/s/	N	/n/
		T̄	/ts/						
G	/dʒ/	C	/tʃ/	J	/ʒ/	Ş	/ʃ/		
G, GH	/g/	C, CH	/k/			H	/h/		
L	/l/	R	/r/	X	/ks, gz/				
K, Q	/k/	Y	/i, j/	W	/u, v, w/				

(G, C): (/dʒ/, /tʃ/) before E or I, (/g/, /k/) elsewhere

A	/a/	I	/i, j/	U	/u, w/	E	/e, je/	O	/o/
Ă	/ə/	Î	/ɨ/						
Â	/ɨ/								

at the end of word, I = /i/, II = /i/, III = /iji/

български език

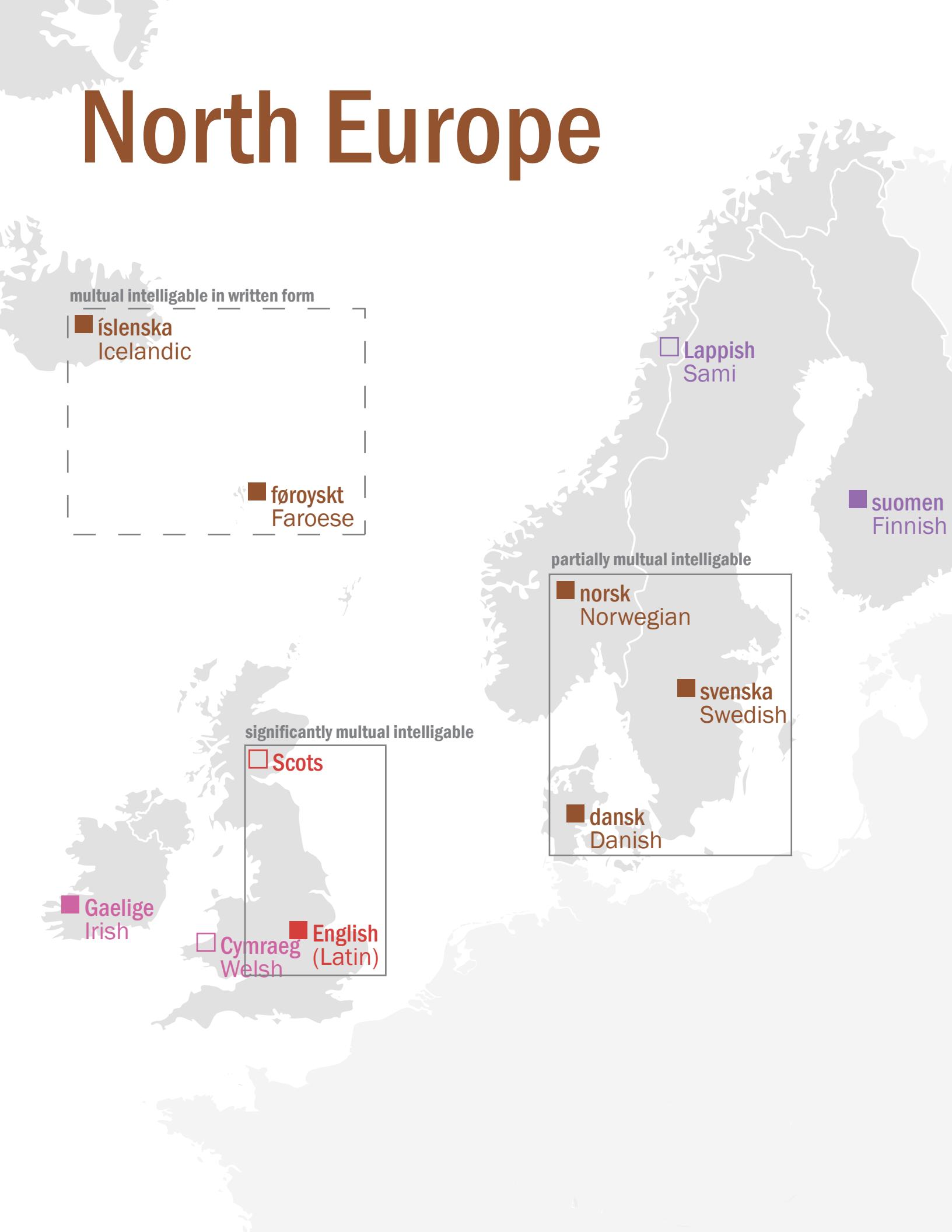
В /b/	Б	Р /p/	П	В /v/	В	Ф /f/	Ф	М /m/	М
Д /d/	Д	Т /t/	Т	З /z/	З	С /s/	С	Н /n/	Н
Ч /tʃ/	Ч	Ц /ts/	Ц	Ж /ʒ/	Ж	Ш /ʃ/	Ш	ШТ /tʃ/	ШТ
Г /g/	Г	К /k/	К	Х /χ/	Х				
Л /ʌ, ʌ/	Л	Р /r/	Р						

1. voiced consonants (column 1 and 3) are pronounced voiceless (consonants to their right in column 2 and 4) before voiceless consonants or at the end of word. Voiceless consonants are pronounced voiced before voiced consonants.

2. І before е, и, ю, я and ъ /ʌ/, /ʌ/ elsewhere

А /a/	А	И /i/	И	У /u,o,w/	У	Е /ɛ/	Е	О /o/	О
ЈА /ja/	Я	Ј /j/	Й	ЈУ /ju/	Ю				
А /ɔ/	Тъ								
' /j/	Ь								

North Europe



Íslenska Icelandic

B /p/

silent between M and (D, T, S, G)

D /t/

silent between (L, N) and (G, N, L, K, S)

G /k/

silent before (Á, Ó, Ú, A, U)
/cl at beginning and before (E, I, Í, J, Y, Y, Æ, EI, EY)
/g/ between a vowel and (A, U, Ð, L, R) or at word final
/x/ before (T, S) or a pause
/j/ between a vowel and (J, I)

GJ /cl/

V /v/

Z /s/

Ð /ð/

/θ/ before a voiceless consonant and before a pause
silent between R and N, and G and S

H /h/

P /pʰ/

/p/ after a voiceless sound

/f/ before (S, K, T)

/hp/ before N

T /tʰ/

/t/ after a voiceless sound

K /kʰ/

/ch/ at beginning and before (E, I, Í, J, Y, Y, Æ, EI, EY)
/x/ before T

KJ /ch/

/c/ when not at beginning

F /f/

/v/ between vowels, or between vowel and a voiced consonant, or at the end
/p/ before (L, N)
silent between Ó and a vowel

S /s/

SL /stl/

SN /stn/

Þ /θ/

HJ /ç/

M /m/

FND /mt/ FNT /mt/

N /n/

NN /tn/

/ŋ/ before (G, K)

/n:/ not after accented vowels or diphthongs

L /l/

LL /tl/

HL /l/

R /r/

HR /r/

RL /rtl/

RN / rtn/

X /xs, ks/

A Á AU Æ I, Y Í, Y U Ú E É

Short	/æ/				/ɪ/		/ʏ/		/ɛ/	
Long	/ä:/	/äu/	/œu/	/äi/	/i/	/y/	/u/	/eɛ/	/jɛ/	
Before /ŋ/	/äu/				/i/		/u/		/ɛi/	

EI, EY O Ó Ö

Short		/ɔ/		
Long	/ɛi/	/oɔ/	/ou/	/œ/
Before /ŋ/				/œy/

vowels are short when followed by two consonants, with the exceptions of:

1. vowel is long when the first consonant following it is [p t k s] and the second [v j r], e.g. esja, vepja, akrar, vökvvar, tvísvar.
2. vowel is also long in monosyllabic substantives with a genitive -s whose stem ends in a single [p t k] following a vowel (e.g. ráps, skaks), except if the final [p t k] is assimilated into the [s], e.g. báts.
3. the first word of a compound term preserves its long vowel if its following consonant is one of the group [p t k s], e.g. matmál.
4. the non-compound verbs vitkast and litka have long vowels.

Føroyskt

B	/b/	P	/p/	V	/v/	F	/f/	M	/m/
D	/d/	T	/t/			S	/s/	N	/n, ñ/
Ð	/ð/					NN	/dn,n:/		
KJ, HJ, TJ	/tʃ/	DJ	/ʒ/	S, SJ, SKJ, STJ, SK*	/ʃ/	RN	/dn/		
G	/g, dʒ/	K	/k, tʃ/			H	/h/	HV	/kv/
L	/l/	R	/r/	J, HJ	/j/				
LL	/dl, l:/			R	/r/				

0.voiced consonants are devoiced in word-final

- 1.G: /d/ before (E, I, Y, EY) and word-initial, else /g/
- 2.K: /t/ before (E, I, Y, EY), else /k/
- 3.N: /ŋ/ before (C, K, Q, X), else /n/
- 4.SK: /ʃ/ before (E, I, Y, EY)

A, Æ	/a, εa:/	I, Y	/ɪ, i:/	U	/ʊ, u:/	E	/ɛ, e:/	O	/ɔ, o:/
Á	/ɔ, ɔa:/	Í, Ý	/ʊi/	Ú	/ʏ, ʉu:/	EI	/ai/	Ó	/œ, ɔu/
						EY	/ɛ, εi:/	Ø	/œ, ø:/
								OY	/ɔi/

pronounced as long vowels (shown second) before single consonant or no consonants, otherwise short vowels are pronounced.

norsk Norwegian

B	/b/	P	/p/	V	/v/	F	/f/	M	/m/
D	/d/	T	/t/			S	/s/	N	/n/
RD	/ɖ/	RT	/ʈ/			RS	/ʂ/	RN	/ɳ/
						SJ, SK, SKJ	/ʃ/		
G	/g, j/	K	/k, ç/			H	/h/	NG	/ŋ/
GJ	/j/	KJ, TJ	/ç/					GN	/ŋn/
L	/l/	R	/r/					RL	/ɿ/

1. (G, K) pronounced as /j/, /ç/ before I or Y, else /g/, /k/

2. SK = /ʃ/ before I or Y

A	/ɑ/	Å	/ɔ/	Æ	/æ/	I	/ɪ/	Y	/ʏ/	U	/ʉ/	E	/ɛ/	O	/u,o,ɔ/	Ø	/ø/
						/i/		/y/				/e/					
AI	/ɑɪ/											EI	/æɪ/	OI	/ɔʏ/	ØY	/øʏ/
AU	/æʉ/																

1. E = /ɛ/ in unaccented syllables

2. O = /o/ before two consonants, else /u/, with exceptions

Svenska Swedish

B	/b/	P	/pʰ/	V	/v/	F	/f/	M	/m/
D	/d/	T	/tʰ/			S,C	/s/	N	/n/
RD	/ɖ/	RT	/ʈ/			RS	/ʂ/	RN	/ɳ/
		SJ, SK, SKJ, STJ, CH	/ɧ/	K, KJ, TJ, CH	/ç/				
G	/g, j/	K,C	/k/			H	/h/	NG	/ŋ,ŋg/
L	/l/	R	/r/	J, DJ, GJ, KJ, HJ, LJ	/j/		GN	/gn,ŋn/	
RL	/ɿ/								

1.(G, K, CH, SK) = (/j/, /ç/, /ɧ/, /h/) before E, I, Y, Ä or Ö, else (/g/, /k/, /ç/, /sk/)

2.C = /s/ before E, I or Y, else /k/

3.(RG, LG) = (/rj/, /lj/) when not before A, O, U or Å

A	/a, a:/	I	/ɪ, i:/	U	/ø, ɵ:/	E	/ɛ, e:/	O	/ɔ, u:/
Å	/ɔ, o:/	Y/Y	/y, y:/			Ä	/ɛ, ε:/	Ö	/œ, ø:/

short vowels are followed by two or more consonants

Fin

suomi

ish

P	/p/	V	/v/	M	/m/
D	/d,t/	T	/t/	S	/s/
K	/k/	H	/h,h,ç,x/	NG	/ŋ/
L	/l, ɿ/	R	/r/	J	/j/

consonants only used in names and loan words

B	/b,p/	F	/f,v/
Z	/ts/	Ž	/ʒ/
G	/g,k,ŋ/	Q	/k/
		W	/v/
		X	/ks/

C = /k/ before A, O, U, else /s/

A	/ɑ/	I	/i/	U	/u/	E	/e/	O	/o/
Å	/ɔ/	Y	/y/			Ä	/æ/	Ö	/ø/

consonants and vowels can be long by written twice

dansk

B	/b,w/	P	/pʰ,b/	V	/v/	F	/f/	M	/m/
D	/d,ð/	T	/tʰ,d/	CH, SJ	/ç/	S	/s/	N	/n/
G	/g,j/	K	/kʰ,g/			H	/h/	NG	/ŋ/
L	/l/	R	/r/	J	/j/				

consonants used in loan words

C	/s,k/	Q	/kʰ/	W	/v/	X	/gs/	Z	/s/
---	-------	---	------	---	-----	---	------	---	-----

A, E	/a/	E, Æ	/ɛ/	O, Å	/ʌ/	Ø	/œ/
A, E, Æ	/ɑ/	E	/ə/	O, Å	/ɒ/	Ø	/æ/
A	/æ/	I	/i/	O, Å, U	/ɔ/	Ø, Y	/ø/
E, I	/e/	O	/o/	U	/u/	Y	/y/

when followed by one consonant, vowels are usually long
the pronunciation of Danish lacks universal law

English

B	/b/	P	/p/	V,F	/v/	F	/f/	M	/m/
D	/d/	T	/t/	Z	/z/	S,SS,C	/s/	N	/n/
				TH	/ð/	TH	/θ/		
J,G,DG	/dʒ/	CH,T	/tʃ/	S,GE,Z	/ʒ/	SH,S,TI	/ʃ/		
G	/g/	C,K,CK,Q	/k/	CH	/χ/	H	/h/	NG,N	/ŋ/
L	/l/	R	/ɹ/	Y	/j/	W	/w/	X	/ks/

A /æ, eɪ, a:, əər/

I /ɪ, aɪ, ɜ:r, aɪər/

E /ɛ, i:, ɜ:r, ɪər/

O /ɒ, oʊ, ɔ:/

U /ʌ, ju:, ɜ:r, jʊər/ /ʊ, u:, ɜ:r, ʊər/

listed above are general rules, the spelling of English is very complicated

Scots

B	/b/	P	/p/	V	/v/	F	/f/	M	/m/
D	/d/	T	/t,χ/	Z,X	/z/	S,C	/s/	N,GN,KN	/n/
J	/dʒ/			TH	/ð/	TH	/θ/		
G	/g/	K,C,Q	/k/	CH,GH	/χ/	H	/h/	NG,Z	/ŋ/
L	/l/	R	/r/	Y	/j/	W	/w/	NCH	/nʃ/
						WH	/ʍ/		

A	/ɑ,a/	I	/ɪ/	U	/ʌ/	E	/ɛ/	O,OA	/o/
AE	/e/	IY,EY	/əi/	UI,EU	/ø/	EE,IE	/i,i:/	OI,OY	/oe/
AI,AY	/e:/					EI,EA	/eɪ/	OU,OO	/u/
AU	/ɑ:,o:/					EW	/ju/	OW	/au/

Cymraeg

B /b/ P /p/ F /v/ FF,PH /f/ M /m/

D /d/ T /t,ð/ S /s,ʃ/ N /n/

DD /ð/ TH /θ/

G /g/ K /k/ CH /χ/ H /h/ NG /ŋ/

L /l/ LL /ɬ/ R /r/ RH /ɾ/

A /ɑ/ I /ɪ/ U /ɨ/ E /ɛ/ O /o/ Y /i/ W /u/

Â long vowel

Gaeilge

B /b/	P /p/	F /f/	M /m/
D /d/	T /t/	S /s/	N /n/
G /g/	C /k/	H /h/	
L /l/	R /r/		

consonants in this block +/j/ when followed by E or I, else +/y/

+H

BH /w/	PH /f/	FH /-/-/	MH /w/
DH /j/	TH /h/	SH /h/	
GH /j/	CH /x/		

Eclipsis

MB /m/	BP /b/	BHF /w/
ND /n/	DT /d/	
NG /ŋ/	GC /g/	

A /a/ I /i/ U /u/ E /e/ O /o/

A = /ə/ after U or I

Á long vowel

West Europe



Dutch

B	/b,p/	P	/p/	V	/v/	F	/f/	M	/m/
D	/d,t/	T,TH	/t/	Z	/z/	S	/s/	N	/n/
G	/ɣ,x/	K	/k/	CH	/χ/	H	/h/	NG	/ŋ/
L	/l/	R	/r/	J	/j/	W	/w/		

(B, D, G) = (/p/, /t/, /x/) when final

A	/a/	I	/ɪ/	U	/ʏ/	E	/ɛ/	O	/ɔ/
AA	/a:/	IE	/i:/	UU	/y:/	EE	/e:/	OO	/o:/
OU	/au/	IJ	/ɛɪ, i:/	UI	/œy/	EU	/ø:/	OE	/u:/

UW /yu/

OEI	/ui/
-----	------

Lëtzebuergesch

B	/b/	P	/p/	F, W	/v/	V	/f/	M	/m/
D	/d/	T	/t/	Z	/ts/	S	/s/	N	/n/
SCH, CH, G	/ʃ/			SP	/ʃp/	ST	/ʃt/		
G	/g/	K	/k/	CH	/χ/	H	/h/	NG	/ŋ/
L	/l/	R	/r/	J	/j/				

Consonants used in loan words

C	/s,k/	G	/ʒ/	Q	/k/	X	/z/	Y	/j/
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C = /s/ before E or I, else /k/

CH = /ʃ/ before E, else /χ/

G = /ʒ/ at the end of words before E, else /g/

A	/a/	I	/i/	U	/u/	E	/ɛ/	O	/o/
Ä	/ɛ/					É	/e/		
						Ë	/œ/		
ÄI	/ai/	UE	/uə/	EI	/ai/	OU	/əu/	OE	/o:/

français

B	/b/	P	/p/	V	/v/	F,PH	/f/	M	/m/
D	/d/	T,TH	/t/	Z	/ts/	S,C,Ç	/s/	N	/n/
				J,G	/ʒ/	CH	/ʃ/	GN	/ɲ/
G	/g/	K,C	/k/	X,CC	/ks/	H	/h/	NG	/ŋ/
L	/l/	R	/ʁ/	Y	/j/	W	/w/	H	/-/

1. C = /s/ before I,E,Y, else /k/

2. G = / / before I,E,Y, else /g/

3. M,N are mute at word-final and preceding vowels are nasalized

4. D,G,P,R,S,T,X,Z silent at word-final

5. in the end of word, BS, CS, DS, FS, GS, PS, TS are silent,

6. CT silent after a nasal vowel

these are only common rules, lots of exceptions exist

A, À	/a/	U, Ú, UE _(final)	/y/
AÏ	/ai/	U _(before vowel)	/ɥ/
AOU, AOÚ	/au/	UE	/ɥɛ/
Â	/a/	O, AU, EAU	/o/
AI, AÎ, AIE, AY _(final) , E, È, Ê, EI, EÎ	/ɛ/	OÏ	/oi/
AYE	/ɛi/	Ô	/ɔ/
AY	/ɛj/	OË	/ɔɛ/
AI, E, É, ÉE	/e/	EU, œ, œU,	/œ/
E	/ə/	UE _(after C,G)	
E _(final)	/-/	EÚ	/ø/
I, Î, IE, Y	/i/	OU, OÚ, OUE	/u/
Ï, Y _(initial+vowel)	/j/	OÊ, OI, OIE	/wa/
		OY	/waj/

Deutsch

B /b/	P, B /p/	V, W /v/	F, PH, V /f/	M /m/
D /d/	T,D /t/	S /z,s/	TS, Z, C /ts/	N /n/
DSCH /dʒ/	TSCH /tʃ/	J /ʒ/	SCH, Œ, S /ʃ/	
G /g/	K, C, Q, G, CH /k/			NG /ŋ/
		CH /χ,ç/	H /h:/	
L /l/	R /β,R,ə/	Y,J /j/		

1. B, D, G = (/p/, /t/, /k/) at the end of a syllable or before (S, T),
else (/b/, /d/, /g/)
2. S = /z/ between vowels or before a vowel at word-initial,
/ʃ/ before (T, P) at word-initial, /s/ elsewhere
3. CH = /χ/ after (A, O, U), /k/ before (A, O, U) at word-initial, /ç/ else
4. G, J = /dʒ/ in some loanwords, V = /v/ in loanwords
5. R silent after A and before a consonant/word-final
/ə/ after vowels other than A and before a consonant/word-final
/β/ after a word-initial consonant and before a vowel, else /R/
6. IG = /iç/ at word-final
7. H makes vowel long after a vowel, else /h/

A /a/	AH, AA /a:/	EI, AI, AY /ai/	1. E = /ə/ in unaccented syllables
Ä /e:/	ÄH /ɛ:/		2. ER = /ə/ at syllable-end in unstressed syllables
I /ɪ/	IH, IE /i:/		
U /ʊ/	UH /u:/		
Ü /ʏ/	ÜH /y:/		
E /ɛ, ə/	EH, EE /e:/		
O /ɔ/	OH, OO /o:/	EU, ÄU /ɔi/	
Ö /œ/	ÖH /ø:/		

Rumantsch

B	/b/	P,B	/p/	V,W	/v/	F,V	/f/	M	/m/
D	/d/	T,TH,D	/t/	S	/z/	S	/s/	N	/n/
J,G	/dʒ/	TSCH,G	/tʃ/	SCH,S	/ʒ/	SCH,S	/ʃ/		
				CH	/tʂ/	Z,C	/ts/		
G	/g/	K,C,G,CH	/k/			H	/h,-/	NG	/ŋ/
L	/l/	GL	/kl/	R	/r/	Y,J	/j/	W	/w/
SC	/ʃk,sts/	TG	/tʂ/	STG	/ʃtʂ/	Q	/kw/	X	/ts/

1. C, CH, G, SC = /ts/, /k/, /dʒ/, /sts/ before (I, E), else /k/, /tʃ/, /g/, /ʃk/
2. G = /k/ or /tʃ/ at word-final, GL = /kl/ at word-final
3. D, V = /t/, /f/ at word-final and syllable-final, else /d/, /v/
4. S = /s/ at word-initial, /z/ between vowels,
/ʃ/ before an unvoiced consonant, /ʒ/ before a voiced consonant
5. H = /h/ in some loanwords, J = /dʒ/ in some English loanwords

A	/a,a:,ə/	I	/i,i:/	U	/ʊ,u:/	E	/ɛ,e:,ə/	O	/ɔ,o:/
Ä	/ɛ/			Ü	/y/			Ö	/ø/
AI	/a:i/	IA	/ja/	UA	/wa/	EI	/eɪ/	OI	/ɔɪ/
AU	/a:u/	IE	/ɪe:/	UI	/wi/	EU	/eu/	OU	/ou/
		IEU	/jɛu/	UE	/wɛ/				
				UO	/wə/				

vowels before one consonant are usually short, before two consonants are usually long. A, E = /ə/ in unstressed syllables

español Spanish

B,V	/b/	P	/p/	B,V	/β/	F	/f/	M	/m/
D	/d/	T	/t/			S	/s/	N	/n,ŋ/
Y	/dʒ/	CH	/tʃ/	D	/ð/	Z,C	/θ/	Ñ	/ɲ/
G,GU	/g/	K,C,Q	/k/	J,G	/χ/			H	/-/
L	/l/	LL	/ʎ/	R	/ɾ,r/	RR	/ɾ/	Ñ	/ɲ/
Y	/j/	W	/b,β,w/	X	/ks/				

1. B, V, D = /β/, /β/, /ð/ between vowels, else /b/, /b/, /d/
2. C, G, GU = /θ/, /χ/, /g/ before (I, E), else /k/, /g/, /gw/
3. N = /ŋ/ before (G, K, X), else /n/
4. R = /ɾ/ in consonant clusters, else /r/
5. S often silent at word-final or syllable-final

A	/a/	I, Y	/i/	U	/u/	E	/e/	O	/o/
		Ü			/w/				

català

B	/b/	P	/p/	V, W	/v/	F	/f/	M	/m/
D	/d/	T	/t/					N	/n/
TZ	/dz/	TS	/ts/	Z, S	/z/	S, Ç, C	/s/		
TG, TJ	/dʒ/	TX	/tʃ/	G	/ʒ/	X	/ʃ, ks, gz/	NY	/ɲ/
J, G	/g/	K, C, Q	/k/					H	/-/
L	/l/	L·L	/l:/	LL	/ɫ/	R	/ɾ, r, -/	RR	/r/
IG	/tʃ, tʃ/	IX	/ʃ, iʃ/	GU	/g/	QU	/k/	TG	/dʒ/

1. C, G, TG, GU, QU = (*/s/, /ʒ/, /dʒ/, /g/, /k/*) before (I, E),
else (*/k/, /g/, /tg/, /gw/, /kw/*)

2. IG, IX pronounced as in the table only when at word-final

3. R = */ɾ/* at word-initial, silent at word-final

A	/a, ə/	I	/i, j/	U	/u, w/	E	/ɛ, e, ə/	O	/ɔ, o, u, w/
À	/a/	Í	/i/	Ü	/u, w/	È	/ɛ/	Ò	/ɔ/
		Í	/i/	Ú	/u/	É	/e/	Ó	/o/
		Y	/i, j/						

Euskara Basque

B	/b/	P	/p/	F	/f/	M	/m/
D	/d/	T	/t/	Z	/s/	N	/n/
				S	/s/		
DD, ID	/ɟ/	TT, IT	/tʃ/	X	/ʃ/	Ñ, IN	/ɲ/
G	/g/	K	/k/	H	/h, -/		
L	/l/	LL, IL	/ʎ/	R	/r, ɾ/	J	/j/

1. ID, IT, IN, IL pronounced as in the table only when at middle of word
2. R = /ɾ/ in middle of word, else /r/

A /a/ I /i/ U /u/ E /e/ O /o/

Português

B	/b/	P	/p/	V	/β/	F	/f/	M	/m/
D	/d/	T	/t/	Z, S	/z/	S, Ç, C	/s/	N	/n/
		CH	/tʃ/	J, Z, G	/ʒ/	S, X	/s/	NH	/ɲ/
G, GU	/g/	K, C, QU	/k/						
L	/l/	LH	/ʎ/	R	/ɾ, ʁ/	RR	/ʁ/		
Y	/j/	W	/v, w/	X	/ks/				

1. C, G = /s/, /ʒ/ before (E, I, Y), else /k/, /g/

2. M, N often voiceless at word-final and the preceding vowel is nasalized

3. R = /ʁ/ when at syllable-initial, else /ɾ/

4. S = /z/ between vowels

5. X = /ʃ/ at word-initial

A	/a, ɐ/	I	/i/	U	/u/	E	/ɛ, e/	O	/o, ɔ, õ/
Á	/a/	Í	/i/	Ú	/u/	É	/ɛ/	Ó	/ɔ/
À	/a/					Ê	/e, əj/	Ô	/o/
Â	/ɐ, ẽ/							Õ	/õ/
Ã	/ɐ/								

Italian

B	/b/	P	/p/	V	/v/	F	/f/	M	/m/
D	/d/	T	/t/	S	/z/	S	/s/	N	/n/
				Z	/dz/	Z	/ts/		
J, G	/dʒ/	C	/tʃ/	J	/ʒ/	SC	/ʃ/	GN	/ɲ/
G, GH	/g/	K, CH, Q	/k/					H	/-/
L	/l/	GLI	/ʎ/	R	/r/				
Y, J	/j/	W	/v,w/	X	/ks/				

1. C, G, SC = /tʃ/, /dʒ/, /ʃ/ before (l, E), else /k/, /g/, /sk/

2. S = /z/ between vowels, else /s/

A	/a/	I	/i/	U	/u, w/	E	/ɛ, e/	O	/o, ɔ/
						É	/ɛ/	Ó	/o/
						È	/e/	Ò	/ɔ/

Lingua Latina

B	/b/	P	/p/	PH	/p ^h /	F	/f/	M	/m/
D	/d/	T	/t/	TH	/t ^h /	Z	/z/	S	/s/
								N	/n/
								GN	/ɲ/
G	/g/	K,C	/k/	CH	/k ^h /	H	/h/	NG	/ŋ/
L	/l/	R	/r/	I	/j/	W	/w/	Q	/k ^w /
A	/a/	I	/i/	V	/u/	E	/e/	O	/o/
AE	/aj/	AV	/aw/	EI	/ej/	EV	/ew/	OE	/oj/
								Y	/y/

note: this is the reconstructed pronunciation of classical Latin

Maltese

B	/b/	P	/p/	V	/v/	F	/f/	M	/m/
D	/d/	T	/t/	Ż	/z/	S	/s/	N	/n/
Ġ	/dʒ/	Ċ	/tʃ/	Z	/dz, ts/	X	/ʃ/		
G	/g/	K	/k/	Q	/χ/	Ħ	/ħ/	GH, H	/ç/
L	/l/	R	/r/	J	/j/	W	/w/		

1. GH, H lengthens preceding vowel, = /ħ/ at word-final, GHH = ĦĦ
2. B, D, Ġ, G, V, Ż = /p/, /t/, /tʃ/, /k/, /f/, /s/ at word-final
3. M = /im/ when at word-initial and followed by consonant

A /a/ I /i/ U /u/ E /ɛ/ O /o/
IE /iɛ, i:/

I = /i:/ before GH, H, Ħ

Southeast Europe



slovenščina

B	/b/	P	/p/	V	/v/	F	/f/	M	/m,mj/
D	/d/	T	/t/	Z	/z/	S	/s/	N	/n,ŋ/
				Ž	/ʒ/	Š	/ʃ/	NJ	/nj,n/
DŽ	/dʒ/	Č	/tʃ/	DZ	/dz/	C	/ts/		
G	/g/	K	/k/			H	/x, h/		
L	/l, w/	R	/r/	J	/j/	J	/j/	Q	/kv/
LJ	/lj, l/	DN	/dŋ/	DL	/dʎ/	TN	/tŋ/	TL	/tʎ/

L = /w/ in past participles and sometimes in other words

M = /mj/ before (F, V)

N = /ŋ/ before (K, G)

A /a,ʌ/ I /i/ U /u/ E /e,ɛ,ə/ O /o,ɒ,ɔ/

bosanski

Hrvatski

Crnogorski jezik

српски

В /b/ Б Р /p/ П В /v/ В Ф /f/ Φ М /m/ М

Д /d/ Д Т /t/ Т З /z/ З С /s/ С Н /n/ Н

Ж /z/ Ж'

Ћ /dʒ/ Ђ Ћ /tʃ/ Ћ С /ts/ Ц НЈ /p/ Њ

ДŽ /dʒ/ Џ Ќ /tʃ/ Ч Ж /ʒ/ Ж Ш /ʃ/ Ш

Г /g/ Г К /k/ К Х /χ/ Х

Л /l/ Л Ј /ʎ/ Ј Р /r/ Р

А /a/ А И /i/ И У /u/ У Е /e/ Е О /ɔ/ О

Македонски Macedonian

В /b/	Б	Р /p/	П	В /v/	В	F /f/	Ф	М /m/	М
Д /d/	Д	Т /t/	Т	З /z/	З	С /s/	С	Н /n/	Н
DZ /dz/	Ѕ	С /ts/	Ц					NJ /ɲ/	Њ
DJ /dʒ/	Џ	CH /tʃ/	Ч	ZH /ʒ/	Ж	SH /ʃ/	Ш		
GJ /ɟ/	Ѓ	KJ /č/	Ќ						
G /g/	Г	K /k/	К	X /x/	Х				
L /ɫ/	Л	LJ /ɿ/	Љ	J /j/	Ј	R /r/	Р		
A /a/	А	I /i/	И	U /u/	У	E /e/	Е	O /ɔ/	О

Albanian

ελληνικά

P /p/ Π π V /v/ Β β F /f/ Φ φ M /m/ Μ μ

T /t/ Τ τ Z /z/ Ζ ζ S /s/ Σ σ/ς N /n/ Ν ν

D /ð/ Δ δ Θ /θ/ Θ θ

K /k/ Κ κ Γ /γ/ Γ γ CH /χ/ Χ χ

L /l/ Λ λ R /r/ Ρ ρ X /ks/ Ξ ξ PS /ps/ Ψ ψ

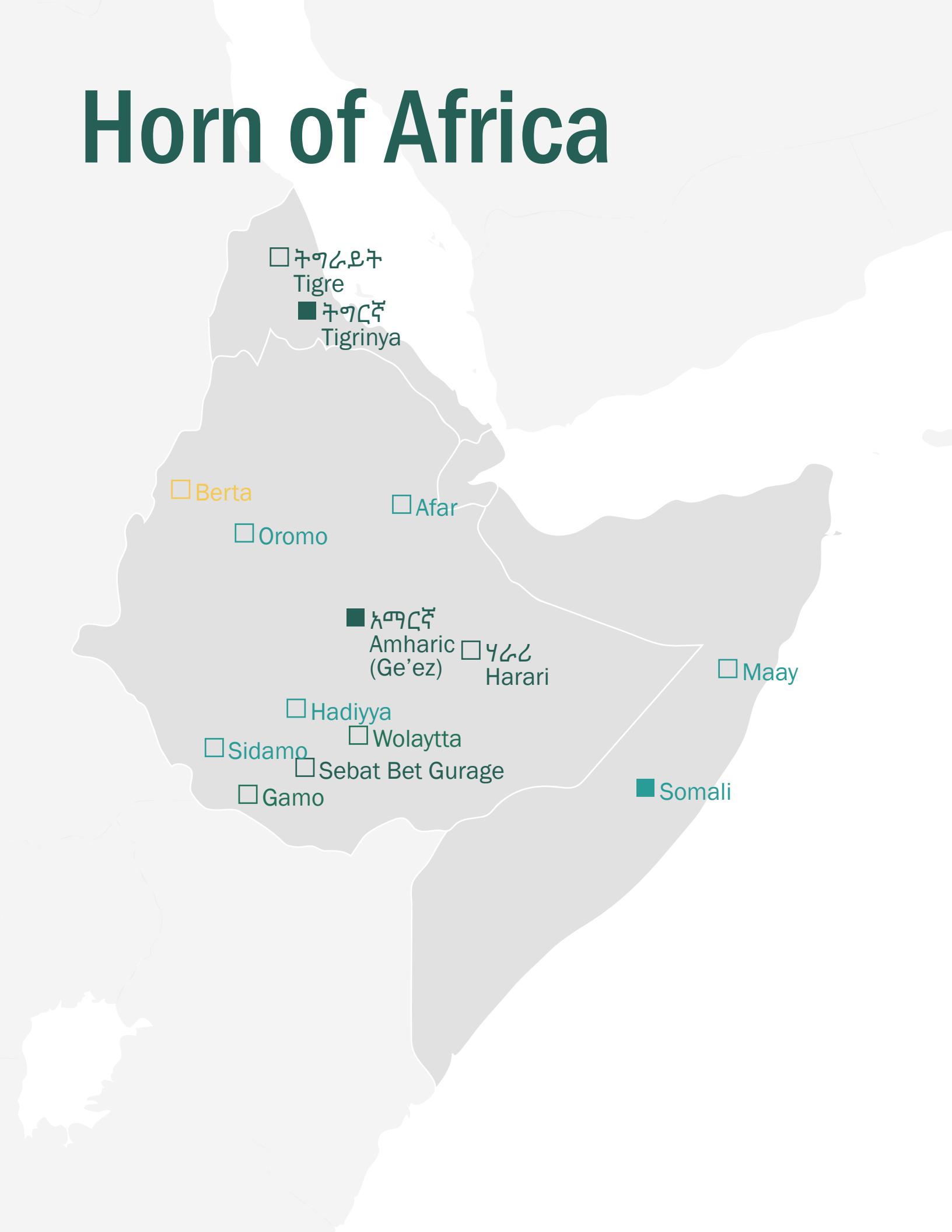
A /a/ Α α I /i/ Η η, Ι ι, Υ υ E /e/ Ε ε O /o/ Ο ο, Ω ω

AFRICA

AMERICA

OCEANIA

Horn of Africa



Ammaric

B /b/ በ	P /p/ ብ	T /t/ ተ	V /v/ ት	ጀ	F /f/ ቊ	M /m/ ቈ	፩
		T /t/ ተ					
		CH/tʃ/ ተቋ					
D /dʒ/ ደ	P' /p'/ ዶ	Z /z/ ዝ	H /h/ ይ	S /s/ ሳ	N /n/ ነ		
J /dʒ/ ዜ	T' /t'/ ዶ	ZH/z/ ዝ	H' /h/ ይ	SH/ʃ/ ን	NY/ɲ/ ን	ኔ	
		CH/tʃ/ ተቋ			Ś /s/ ሂ		
					Ś /ts'/ ደ		
					ሻ /ts'/ ተ		
G /g/ ገ	K /k/ ኃ	H /h/ ክ	H /h/ ክ	H /h/ ክ	H /h/ ክ	ሀ	
	X /x/ ኮ	' /χ/ እ	' /χ/ እ	H /h/ ክ			
	Q /k'/ ቅ	' /χ/ እ	O				
L /l/ ለ	R /r/ ሲ	Y /j/ የ	R	W /w/ ወ			

(K as example)

Ä /ə/ አ A /a/ አ I /i/ ካ U /u/ ኪ Θ /i/ ክ E /e/ ክ O /o/ ክ
 WÄ /wə/ ክዎ WA/wa/ ክዎ WI/wi/ ክዎ WΘ/wi/ ክዎ WE/we/ ክዎ

	Ä	A	I	U	Ө	E	O	WÄ	WA	WI	WӨ	WE
B	በ	በ	በ	በ	በ	በ	በ	በ	በ	በ	በ	በ
P	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ
T	ተ	ተ	ተ	ተ	ተ	ተ	ተ	ተ	ተ	ተ	ተ	ተ
CH	ቻ	ቻ	ቻ	ቻ	ቻ	ቻ	ቻ	ቻ	ቻ	ቻ	ቻ	ቻ
V	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ
F	ቆ	ቆ	ቆ	ቆ	ቆ	ቆ	ቆ	ቆ	ቆ	ቆ	ቆ	ቆ
M	ሙ	ሙ	ሙ	ሙ	ሙ	ሙ	ሙ	ሙ	ሙ	ሙ	ሙ	ሙ
D	ዶ	ዶ	ዶ	ዶ	ዶ	ዶ	ዶ	ዶ	ዶ	ዶ	ዶ	ዶ
J	ጃ	ጃ	ጃ	ጃ	ጃ	ጃ	ጃ	ጃ	ጃ	ጃ	ጃ	ጃ
P'	ጭ	ጭ	ጭ	ጭ	ጭ	ጭ	ጭ	ጭ	ጭ	ጭ	ጭ	ጭ
T'	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ
CH'	ች	ች	ች	ች	ች	ች	ች	ች	ች	ች	ች	ች
Z	ዘ	ዘ	ዘ	ዘ	ዘ	ዘ	ዘ	ዘ	ዘ	ዘ	ዘ	ዘ
ZH	ዘ	ዘ	ዘ	ዘ	ዘ	ዘ	ዘ	ዘ	ዘ	ዘ	ዘ	ዘ
S	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ
SH	ሻ	ሻ	ሻ	ሻ	ሻ	ሻ	ሻ	ሻ	ሻ	ሻ	ሻ	ሻ
Ś	ሣ	ሣ	ሣ	ሣ	ሣ	ሣ	ሣ	ሣ	ሣ	ሣ	ሣ	ሣ

specific form
regular stroke
alternative stroke

	Ä	A	I	U	Ө	E	O	WÄ	WA	WI	WӨ	WE
N	Ն	Ա	Ի	Ո	Շ	Ե	Օ	ՎԱ	ՎԱ	ՎԻ	ՎՇ	ՎԵ
NY	Ն	Ա	Ի	Ո	Շ	Ե	Օ	ՎՖ	ՎՄ	ՎԺ	ՎՇ	ՎԵ
S	Զ	Զ	Զ	Զ	Զ	Զ	Զ					
SH	Թ	Թ	Թ	Թ	Թ	Թ	Թ					
G	Ղ	Ղ	Ղ	Ղ	Ղ	Ղ	Ղ	Ղ	Ղ	Ղ	Ղ	Ղ
K	Ւ	Ւ	Ւ	Ւ	Ւ	Ւ	Ւ	Ւ	Ւ	Ւ	Ւ	Ւ
X	Խ	Խ	Խ	Խ	Խ	Խ	Խ					
Q	Փ	Փ	Փ	Փ	Փ	Փ	Փ	Փ	Փ	Փ	Փ	Փ
H	Լ	Հ	Լ	Հ	Լ	Լ	Լ	Լ	Լ	Լ	Լ	Լ
H	Ս	Վ	Վ	Վ	Վ	Վ	Վ	Վ				
H	Ի	Ի	Ի	Ի	Ի	Ի	Ի					
'	Ճ	Ճ	Ճ	Ճ	Ճ	Ճ	Ճ					
'	Օ	Ջ	Ջ	Ջ	Ջ	Ջ	Ջ					
L	Ղ	Ղ	Ղ	Ղ	Ղ	Ղ	Ղ	Ղ				
R	Ր	Ր	Ր	Ր	Ր	Ր	Ր	Ր				
Y	Ր	Յ	Յ	Ր	Յ	Ր	Ր	Ր				
W	Փ	Փ	Փ	Փ	Փ	Փ	Փ	Փ				

specific form
regular stroke
alternative stroke

Saf Soomaali

B /b/

F /f/

M /m/

D /d/ T /t/

S /s/

N /n/

DH /ɖ/ J /tʃ/

SH /ʃ/

G /g/ K /k/

X /ħ/ H /h/

Q /q/ KH /χ/

' /՛/ C /ç/

L /l/ R /r/

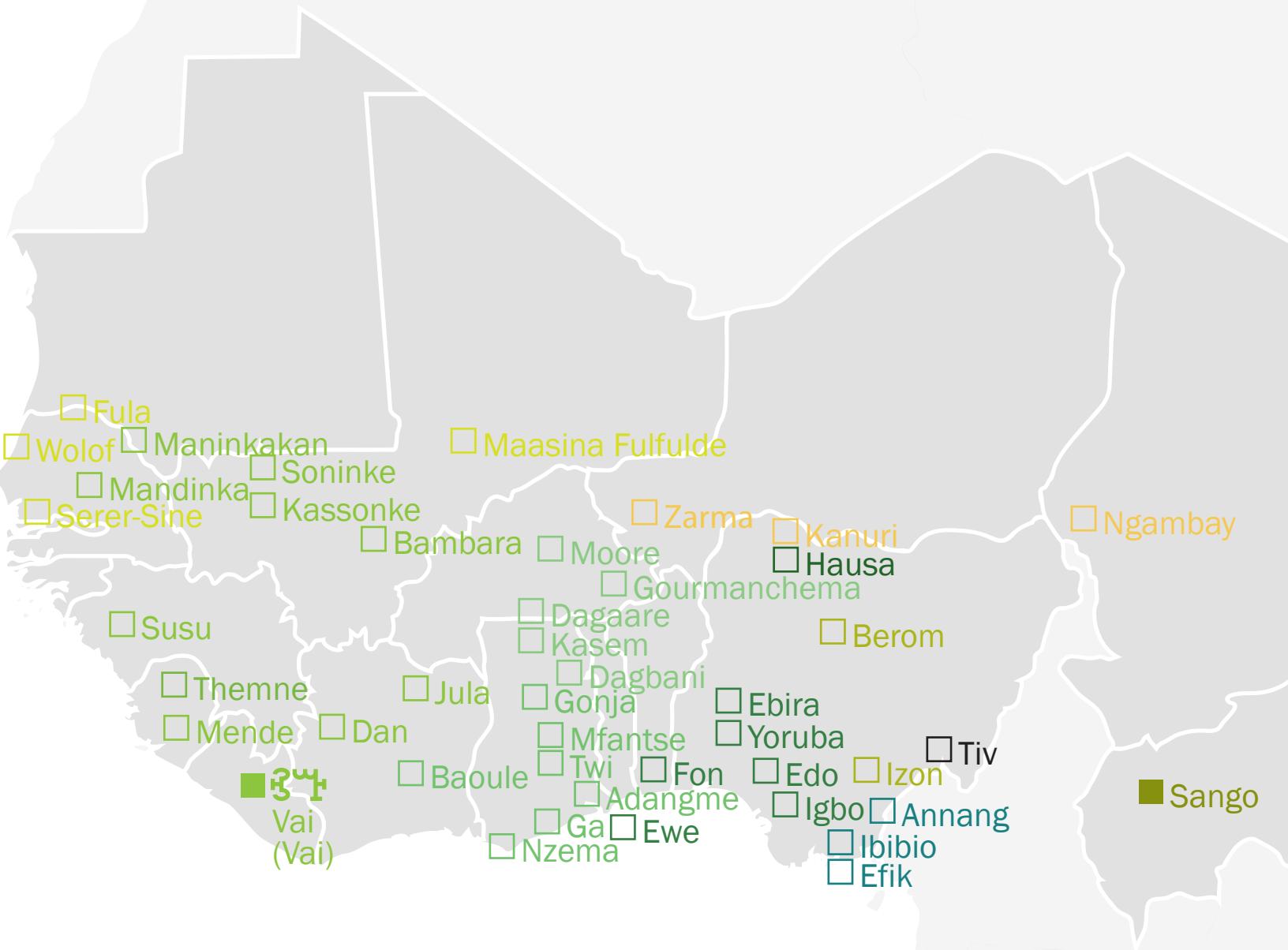
Y /j/ W /w/

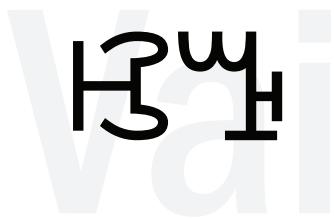
A /æ,a/ I /i,i/ U /u,u/ E /e,e/ O /o,o/

Double the vowel to indicate a long vowel

Á High Tone À Low Tone Â Falling Tone

West Africa





Pronunciation & Romanization

MB /m̥b/ B /b/ BH/b/ P /p/ V /v/ F /f/ M /m/

ND /n̥d/ D /d/ DH/d/ T /t/ Z /z/ S /s/ N /n/

NJ /n̥dʒ/ J /dʒ/ CH/tʃ/ NY/j/

NGG /n̥g/ G /g/ K /k/ H /h/ NG/ŋ/

MGB /n̥mgb/ GB/gb/ KP/kp/

L /l/ Y /j/ W /w/

A /a/ I /i/ U /u/ E /ɛ/ EE /e/ O /ɔ/ OO /o/

AN /ã/ IN /ĩ/ UN /ũ/ EN /ẽ/ ON /õ/

Yângâ tî Sängö

B /b/ P /p/ V /v/ F /f/ M /m/

D /d/ T /t/ Z /z/ S /s/ N /n/

J /ʒ/ SH /ʃ/ NY /ɲ/

G /g/ K /k/ H /h/ NG /ŋg/

L /l/ R /r/ Y /j/ W /w/

MV /mv/ MP /mb/

DJ /dj/ TJ /tj/ NZ /nz/ ND /nd/

GB /gb/ KP /kp/ NGB /ŋgb/

A /a/ I /i/ U /u/ E /ɛ/ O /ɔ/

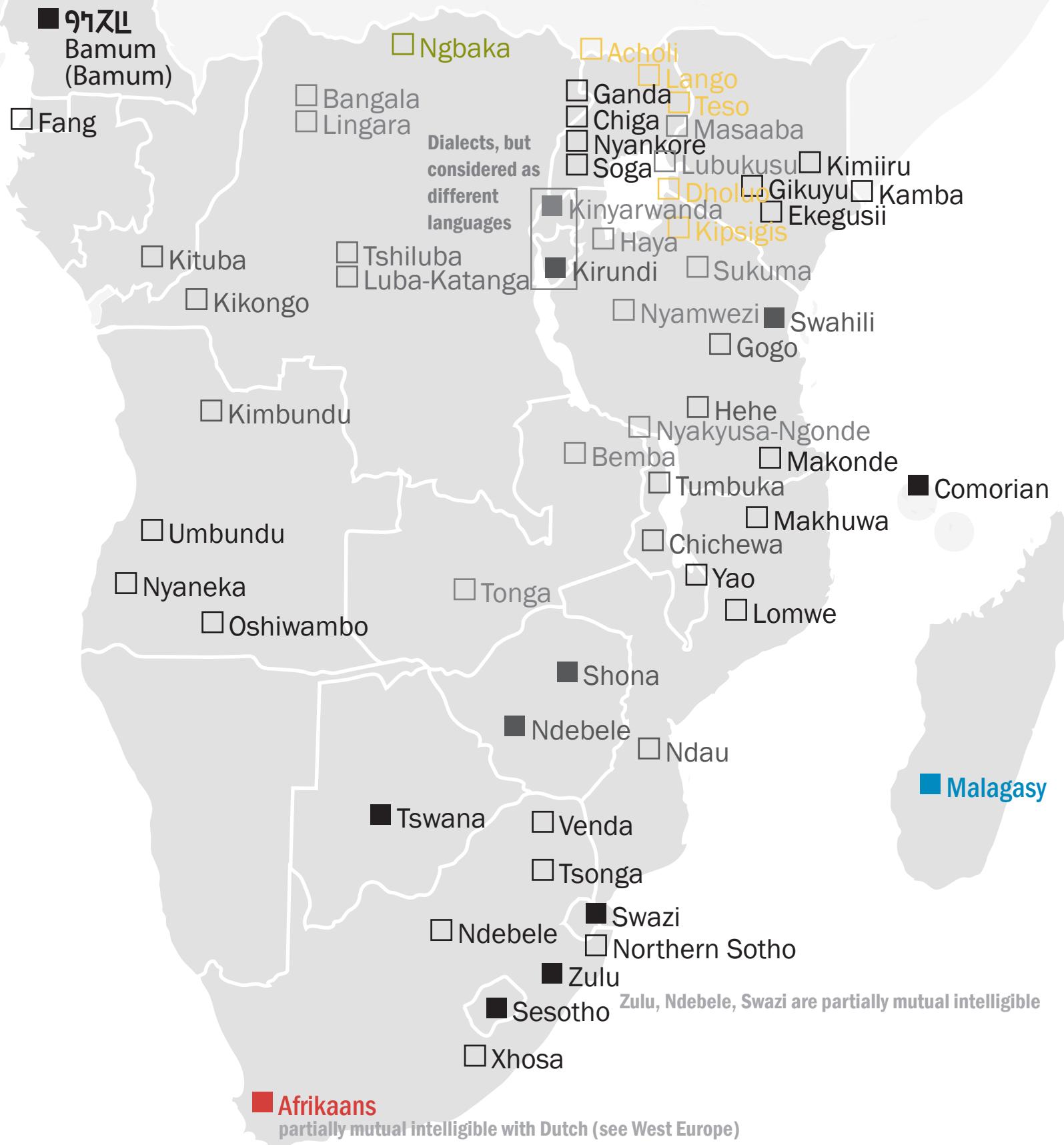
AN /ã/ IN /ĩ/ UN /ũ/ EN /ẽ/ ON /õ/

Â High Tone

Ä Middle Tone

À Low Tone

Black Africa



Digitum

This language is currently unavailable

Kiswahili

B	/b/	P	/p/	V	/v/	F	/f/	M	/m/
D	/d/	T	/t/	Z	/z/	S	/s/	N	/n/
J	/ʃ/	CH	/tʃ/			SH	/ʂ/	NY	/ɲ/
				DH	/ð/	TH	/θ/		
G	/g/	K	/k/	GH	/ɣ/	KH	/χ/	NG'	/ŋ/
						H	/h/		
L	/l/	R	/r/	Y	/j/	W	/w/		
				MV	/mv/	MB	/mb/		
				NZ	/nz/	ND	/nd/		
						NJ	/ndʒ/		
						NG	/ŋg/		
A	/a/	I	/i/	U	/u/	E	/ɛ/	O	/ɔ/

IkiNyarwanda

B	/b/	P	/p/	V	/v/	F	/f/	M	/m/
D	/d/	T	/t/	Z	/z/	S	/s/	N	/n/
J	/dʒ/	C	/c/			SH	/š/	NY	/ɲ/
G	/g/	K	/k/			H	/h/		
L	/l/	R	/r/	Y	/j/	W	/w/		
JY	/gj/	CY	/kj/			NT	/nh/	NK	/ŋkh/

K = /kʰ/ before A, /kʷ/ before O and U

A	/a/	I	/i/	U	/u/	E	/e/	O	/ɔ/
---	-----	---	-----	---	-----	---	-----	---	-----

ikiRundi

B	/b/	P	/p/	V	/bv/	F	/f/	M	/m/
D	/d/	T	/t/	Z	/dz/	S	/s/	N	/n/
J	/dʒ/	C	/tʃ/	SHY	/ç/	SH	/ʃ/	NY	/ɲ/
G	/g/	K	/k/			H	/h/		
L	/l/	R	/r/	Y	/j/	W	/w/		
JY	/gj/	CY	/kj/	NK	/ŋx/	NT	/nh/	MP	/mh/
A	/a/	I	/i/	U	/u/	E	/e/	O	/o/

isiNdebele

B /b/

BH /b/ P /p'/ PH /p^h/ V /v/ F /f/ M /m/

D /d/ T /t'/ TH /t^h/ Z /z/ S /s/ N /n/

J /dʒ/ TJ /tʃ/ TJH /tʃ^h/ TS /ts'/ TSH /ts^h/ NY /ɲ/

G /g/ K /k'/ KH /k^h/ RH /x/ H /h/ NGH /ŋ/

DL /ɸ/ DLH /ɸ^h/ MV /mɸv/ MF /mɸf/ NG /ŋg/

C /ɿ/ CH /ɿ^h/ GC /g/ NC /ŋɿ/

Q /!ɿ/ QH /!ɿ^h/ GQ /!g/ NGQ /ŋ!g/ NX /ŋɿ!/

L /ɿ/ HL /ɿ/ R /r/ Y /j/ W /w/

KL /kɿ/ KGH /kx^h/ TL /tɿ'/ TLH /tɿ^h/

A /a/

I /i/

U /u/

E /ɛ/

O /ɔ/

chiShona

B	/b/	BH	/b̥/	P	/p/	VH	/v/	F	/f/	M	/m/
						V	/β/			MH	/m̥/
D	/d/	DH	/d̥/	T	/t/	Z	/z/	S	/s/	N	/n/
J	/dʒ/			C	/tʃ/						
G	/g/			K	/k/			H	/h/	NG	/ŋ/
L	/l/	R	/r/	Y	/j/	W	/w/				
DY	/dʒɪg/	TY	/tʃɪk/	ZV	/βz/	SV	/ɸs/	SW	/skw/		
MBW	/mbəg/										

A /a/ I /i/ U /u/ E /e/ O /o/

Fiteny Malagasy

B /b/ P /p/ V /v/ F /f/ M /m/

D /d/ T /t/ Z /z/ S /s/ N /n/
J /dz/ Š /ʃ/

G /g/ K /k/ H /h/ Ŋ /ŋ/

L /l/ R /r/ Y /j/

A /a/ I /i/ O /u/ E /e/ Ō, AO /o/
AI, AY /eɪ/

Setswana

B	/b/	P	/p'/	PH	/ph/	V	/v/	F	/f/	M	/m/		
D	/d/	T	/t'/	TH	/th/	Z	/z/	S	/s/	N	/n/		
J	/dʒ/	TŠ	/tʃ/	TŠH	/tʃʰ/	TS	/ts'/	TSH	/tsʰ/				
		K	/k'/	KH	/kʰ/	G	/x/	H	/h/	NG	/ŋ/		
				TL	/tɬ'/	TLH	/tɬʰ/	KH	/kxʰ/				
C	/ /	X	/ /	Q	/!/								
L	/ /	R	/r/	Y	/j/			W	/w/				
A	/a/	I	/i/	U	/u/	E	/e/	Ê	/ɛ/	O	/o/	Ô	/ɔ/

Afrikaans

B	/b,p/	P	/p/		F,V	/f/	M	/m/	
D	/d,t/	T	/t,d/	Z	/z/	S,C	/s/	N	
DJ	/dʒ/	TJ	/tʃ,kj/			SJ	/ʃ/		
GH	/g,k/	K,C	/k/	CH	/χ/	H	/h/	NG	/ŋ/
G	/g,x/								
L	/l/	R	/r/	J	/j/	W	/w,v/		
Q	/kw/	X	/ks/						

B, D, GH = /p/, /t/, /k/ at word-final, else /b/, /d/, /g/

C = /s/ before (E, I, Y), else /k/

$G = /g/$ between (L, R) and E, else $/x/$

N = /n/ before (C, K, Q, X), else /h/

TJ = /tʃ/ at word-initial, /ki/ before IE

W = /w/ after a consonant, else /v/

Answers to the Test

A	/ʌ,a/	I	/ə,i/	U	/ə,y/	E	/ɛ,e:,ə,æ/	O	/ɒ,o:/
AA	/a:/	Y	/əi/	Û	/œ:/	Ê	/ɛ:/	OO	/o:/
AAI	/aə/	E	/i/	UU	/y/	EE	/e:/	OOI	/ɔ:/
AU	/ou/	EU	/iu/	UI	/œy/	EEU	/i:u/	OI	/oj/
						EI	/əi/	OU	/əu/
						EU	/ø:/	OW	/ou/
								OE	/u/
								OEI	/ui:/

isiZulu

B /b/

BH /b/ P /p'/ PH /p^h/ V /v/ F /f/ M /m/

D /d/ T /t'/ TH /t^h/ Z /z/ S /s/ N /n/

J /dʒ/ TSH /tʃ/ ZH /ʒ/ SH /ʃ/ NY /ɲ/

GH /g/ K /k'/ KH /k^h/ HH /h/ H /h/ NG /ŋ/
KL /kx'/

GC /g|^h/ C /k|/ CH /k|^h/ NC /ŋ|/ NGC /ŋ|^h/

GQ /g!|^h/ Q /k!|/ QH /k!|^h/ NQ /ŋ!|/ NGQ /ŋ!|^h/

GX /g||^h/ X /k||/ XH /k||^h/ NX /ŋ||/ NGX /ŋ||^h/

L /l/ HL /ɿ/ DL /ɮ/ R /r/ Y /j/ W /w/

A /a/

I /i/

U /u/

E /e/

O /o/

seSotho

B	/b/	P	/p/	PH	/pʰ/	F	/f/	M	/m/		
BJ	/bʒ/	PJ	/pʒ/	PJH	/pʒʰ/	FJ	/fʒ/				
D	/d/	T	/t/	TH	/tʰ/	S	/s/	N	/n/		
J	/dʒ/	TJ	/tʃ/	TJH	/tʃʰ/	SH	/ʃ/	NY	/ɲ/		
		TL	/tl/	TLH	/tlʰ/						
		TS	/ts/	TSH	/tsʰ/						
G	/x/	K	/k/	KH	/kʰ/	KG	/χ/	H	/h/	NG	/ŋ/
GC	/g ʰ/	Q	/!/	QH	/!ʰ/	QHW	/!ʰw/			NQ	/ŋ!/
L	/l/	HL	/ɿ/	R	/r/	Y	/j/	W	/w/		
A	/a/	I	/i/	U	/u/	E	/ɪ,e,ɛ/	O	/ə,o,ɔ/		

siSwati

B	/b/						MB	/mb/			
BH	/b/	P	/p'/	PH	/p ^h /	V	/v/	F	/f/	M	/m/
D	/d/	T	/t'/	TH	/t ^h /	Z	/z/	S	/s/	N	/n/
DV	/dv/	TF	/tf/			DZ	/dz/	TS	/ts/		
J	/dʒ/	TJ	/tʃ/			ZH	/ʒ/	SH	/ʃ/		
GH	/g ^h /	K	/k'/	KH	/k ^h /	HH	/h/	H	/h/	NG	/ŋ/
		Q	/k/								
GC	/g /	C	/k /	CH	/k ^h /	NGC	/ŋg /	NC	/ŋ /	NCH	/ŋ ^h /
L	/l/	HL	/ɿ/	DL	/ɮ/	R	/r/	Y	/j/	W	/w/
X	/ks/	KL	/kɻ/								
A	/a/	I	/i/	U	/u/	E	/e/	O	/ɔ/		

America

Hawaiian

**Kalaallisut
Greenlandic**

**ᐃᓄᒃᑎᑐᑦ
Inuktitut
(Canadian Aboriginal syllabics)**

Yucatec Maya

K'iche'
 Garifuna
 Miskito

Quechua

Aymara

Guarani

Mapudungun

አማርኛ

Institut

	/p/		/v/		/m/		
	< PA	PI	< VA	VI	Γ MI		
A	▽	U	V	VO	MO		
/a/	O	/u/	PO	VU	Λ L		
					MA MU		
	/t/	∩	/s/	↶ ↷	/n/		
	∩ TA	TI	SI	SI SO	σ NI		
	U	TU	↪	↪	ρ NO		
	TO		SA	SU	ϙ NA		
					ϙ NU		
/g/	ገ G	/k/	ϙ K	/q/	ϙ Q	/ŋ/	ϙ G
	GI GO		KI KO		QI		NGI
	ሂ J		ከ d		ϙ b ϙ P		ϙ J
	GA GU		KA KU		QA QU		NGA NGU
						/ŋ:/	ϙ G
						NGGI	
						ϙ U	ϙ J
						NGGA NGGU	
/l/	ሉ L	/t/	ሉ L	/ㅂ/	ሉ R	/j/	ያ Y
	LO		LHI		RI		YO
	ላ LA		ሉ LHA		RA		ነ YA
	ሉ LU		ሉ LHU		ሪ RU		ኅ YU
					RO		

/a:/ an upper dot represents long vowel

small size of -A syllable represents consonant final, = final /h/

Kalaallisut

P	/p/	V	/v/	F	/f/	M	/m/
T	/t/			S	/s/	N	/n/
K	/k/			G	/ɣ/	NG	/ŋ/
Q	/q/					RN	/n/
L	/l/	LL	/ɬ/	R	/r/	J	/j/
GG	/ç:/	RR	/χ:/				

1. All consonants can be long
2. T = /ts/ before l
3. T, K, Q, P, G are weaker at word-final

A /a/ I /i/ U /u/ E /e,ɛ/ O /o/

A = /ɑ/ before (Q, R)

Runasimi

P	/p/	P'	/p'/	PH	/p ^h /	M	/m/
T	/t/	T'	/t'/	TH	/t ^h /	S	/s/
CH	/tʃ/	CH'	/tʃ'/	CHH	/tʃ ^h /	SH	/ʃ/
K	/k/	K'	/k'/	KH	/k ^h /	H	/h/
Q	/q/	Q'	/q'/	QH	/q ^h /	J	/χ/
L	/l/	LL	/l/	R	/r/	Y	/j/
						W	/w/
A	/æ/	I	/i/	U	/u/		

Aymara

P	/p/	P'	/p'/	PH	/p ^h /	M	/m/
T	/t/	T'	/t'/	TH	/t ^h /	S	/s/
CH	/tʃ/	CH'	/tʃ'/	CHH	/tʃ ^h /	Ñ	/ɲ/
K	/k/	K'	/k'/	KH	/k ^h /	X	/χ/
Q	/q/	Q'	/q'/	QH	/q ^h /	J	/x/
L	/l/	LL	/ɿ/	R	/ɾ/	Y	/j/
W	/w/						
A	/a/	I	/i/	U	/u/		
Ä	/a:/	İ	/i:/	Ü	/u:/		

Avañe'ẽ

MB /mb/

P /p/

V /v/

M /m/

ND /nd/

T /t/

S /s/

N /n/

NT /nt/

Ñ /ñ/

J /dʒ/

CH /ʃ/

G /g/

K /k/

' /ʔ/

H,X /h/

˜G /ŋ/

NG /ŋg/

L /l/

R /r/

RR /ɾ/

J /j/

A /a/

I /i/

Y //

Y //

U /u/

E /e/

O /o/

˜A /ã/

˜I /ĩ/

˜Y /̄/

˜Y /̄/

˜U /̄u/

˜E /̄e/

˜O /̄o/

Oceania

-
- Chamorro
 - Palauan
 - Marshallese
 - Pohnpeian
 - Yapese
 - Chuukese
 - Kosraean
 - Kiribati
 - Nauruan
 - Tuvaluan
 - Tokelauan
 - Wallisian
 - Futuna
 - Samoan
 - Fijian
 - Niue
 - Tongan
 - Tahitian
 - Maori

Vakaviti

B	/mb/	P	/p/	V	/β/	F	/f/	M	/m/
D	/nd/	T	/t/			S	/s/	N	/n/
		J	/tʃ/	C	/ð/				
G	/ŋ/	K	/k/					Q	/ŋg/
L	/l/	R	/r/	Y	/j/	W	/w/		

DI = /ndʒi/, TI = /tʃi/, DR = /nd/, NR = /ŋdʒr/

A /a/ I /i/ U /u/ E /e/ O /o/

Ā (macron above) represents long vowel

Pohpeian

P	/p/	M	/m/	A	/a/	O	/o/
D	/t/	T	/t/	N	/n/	I	/i/
K	/k/	S	/s/	NG	/ŋ/	U	/u/
L	/l/	R	/r/	W	/w/	E	/e/

Kajin Majeļ

P	/pj/	B	/pɤ/	M	/mj/	M,	/mɤ/
J	/tj/	T	/tɤ/	N	/nj/	N,	/nɤ/
K	/k/					N	/ŋ/
				L	/l̪/	L,	/lɤ/
W	/w/			R	/r̪j/	D	/rɤ/
A	/a/	Ā	/æ/	I	/i/	U	/u/
E	/e,ɛ/	O	/o,o/	Ō	/ʌ,ɤ/	Ǫ	/ɔ/
						Ū	/u/

Ekaiairū Naoero

B	/b/	P	/p/	V	/v/	F	/f/	M	/m/
D	/d/	T	/t/	Z	/z/	S,C	/s/	N	/n/
J	/dʒ/								
G	/g/	K,C	/k/	D	/ð/	H	/h/	Ñ	/ŋ/
L	/l/	R	/r/	Y	/j/	W	/w/	NNG	/ŋ:/
BW	/bw/	GW	/gw/	KW	/kw/	QU	/kw/	X	/ks/
DI	/dʒi/	TI	/tʃi/						
A	/a/	Ã	/ɛ/	I	/i/	U	/ʊ/	Ü	/y/
E	/e/	O	/o/	Ö	/ø/				

taetae ni Kiribati

B	/b/	M	/m/	A	/a/
S	/s/	N	/n/	I	/i/
K	/k/	NG	/ŋ/	U	/u/
R	/r/	W	/w/	E	/e/
				O	/o/

chamorro

B	/β/	P	/p/	F	/f/	M	/m/
D	/d/	T	/t/	S	/s/	N	/n/
Y	/dʒ/	CH	/tʃ/			Ñ	/ɲ/
G	/g/	K	/k/	'	/ɾ/	H	/h/
L	/l/	R	/r/			NG	/ŋ/
A	/a/	I	/i/	U	/u/	E	/e/
Å	/æ/					O	/o/

Palauan

B	/β/	P	/p/	F	/f/	M	/m/
D	/d/	T	/t/	Z	/z/	S	/s/
G	/g/	K	/k/	CH	/ɾ/	H	/h/
L	/l/	R	/r/	RR	/ɾ/		
A	/a/	I	/i/	U	/u/	E	/ɛ/
						Ę	/ə/
						O	/o/

Te Reo Māori

P	/p/	T	/t/	K	/k/	WH	/f/	H	/h/
M	/m/	N	/n/	NG	/ŋ/	R	/ɾ/	W	/w/
A	/a/	I	/i/	U	/u/	E	/e/	O	/o/

Ā (macron above) represents long vowel

Te 'gana Tūvaluan

P	/p/	T	/t/	K	/k/	V	/v/	F	/f/	S	/s/
H	/h/	M	/m/	N	/n/	NG	/ŋ/	L	/l/		
A	/a/	I	/i/	U	/u/	E	/e/	O	/o/		

Ā (macron above) represents long vowel

Tokelauan

P	/p/	T	/t/	G	/g/	K	/k/	L	/l/
V	/v/	F	/f/	H	/h/	M	/m/	N	/n/
A	/a/	I	/i/	U	/u/	E	/e/	O	/o/

Gagana fa'a Sāmoa

P	/p/	T	/t/	V	/v/	F	/f/	S	/s/
M	/m/	N	/n/	G	/ŋ/	'	/ʔ/	L	/l/
A	/a/	I	/i/	U	/u/	E	/e/	O	/o/

Faka-Tonga

P	/p/	T	/t/	K	/k/	V	/v/	F	/f/	S	/s/
H	/h/	M	/m/	N	/n/	NG	/ŋ/	L	/l/	'	/ʔ/
A	/a/	I	/i/	U	/u/	E	/e/	O	/o/		

Ā (macron above) represents long vowel

ko e vagahau Niuē

P	/p/	T	/t/	K	/k/	V	/v/	F	/f/	S	/s/
H	/h/	M	/m/	G	/ŋ/	L	/l/	R	/r/		
A	/a/	I	/i/	U	/u/	E	/e/	O	/o/		

Ā (macron above) represents long vowel

te reo tahiti

P	/p/	T	/t/	V	/v/	F	/f/	H	/h/
M	/m/	N	/n/	R	/r/	'	/ʔ/		
A	/a/	I	/i/	U	/u/	E	/e/	O	/o/

Types of Writing System

