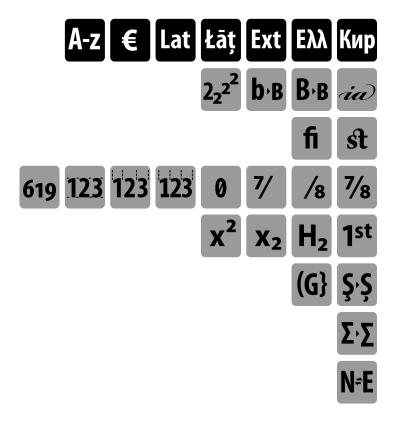
Fira Sans OT Bold Italic

Technical Documentation



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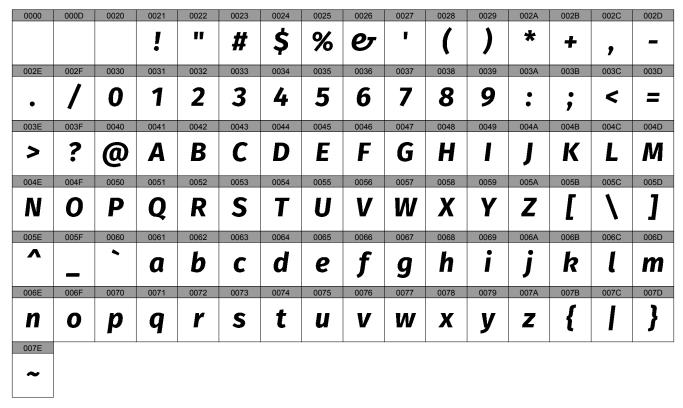
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Encoded Characters

All encoded characters should be accessible with every unicode capable application. For details about Unicode Blocks visist the <u>Unicode Website</u>.

Basic Latin

Block from 0000 to 007F



Latin-1 Supplement

Block from 0080 to 00FF

00A0	00A1	00A2	00A3	00A4	00A5	00A6	00A7	00A8	00A9	00AA	00AB	00AC	00AD	00AE	00AF
	i	¢	£	¤	¥	;	§	••	©	<u>a</u>	«	-	_	®	-
00B0	00B1	00B2	00B3	00B4	00B5	00B6	00B7	00B8	00B9	00BA	00BB	00BC	00BD	00BE	00BF
0	±	2	3	•	μ	71	•	5	1	0	»	1/4	1/2	3/4	ં
00C0	00C1	00C2	00C3	00C4	00C5	00C6	00C7	00C8	00C9	00CA	00CB	00CC	00CD	00CE	00CF
À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	ĺ	Î	Ï
00D0	00D1	00D2	00D3	00D4	00D5	00D6	00D7	00D8	00D9	00DA	00DB	00DC	00DD	00DE	00DF
Đ	Ñ	Ò	Ó	Ô	Õ	Ö	×	Ø	Ù	Ú	Û	Ü	Ý	Þ	ß
00E0	00E1	00E2	00E3	00E4	00E5	00E6	00E7	00E8	00E9	00EA	00EB	00EC	00ED	00EE	00EF
à	á	â	ã	ä	å	æ	Ç	è	é	ê	ë	ì	í	î	ï

00F0	00F1	00F2	00F3	00F4	00F5	00F6	00F7	00F8	00F9	00FA	00FB	00FC	00FD	00FE	00FF
ð	ñ	ò	ó	ô	õ	ö	÷	Ø	ù	ú	û	ü	ý	þ	ÿ

Latin Extended-A

Block from 0100 to 017F

0100	0101	0102	0103	0104	0105	0106	0107	0108	0109	010A	010B	010C	010D	010E	010F
Ā	5	Ă	ă	А	_	ŕ	É	ĉ	2	Ċ	:	ř	×	ň	ď
A	a	A	a	Ą	ą	C	Č	C	C	L	C	C	C	D	u
0110	0111	0112	0113	0114	0115	0116	0117	0118	0119	011A	011B	011C	011D	011E	011F
Đ	đ	Ē	5	Ĕ	ă	Ė	å	E		Ě	ă	ĉ	â	č	ă
D	u	E	e	E	e	E	e	Ę	ę		e	G	g	G	g
0120	0121	0122	0123	0124	0125	0126	0127	0128	0129	012A	012B	012C	012D	012E	012F
Ġ	ä	C	á	Ĥ	ĥ	##	ħ	ĩ	~	7	-	Ĭ	Y		:
G	g	Ģ	g	П		Ħ	"			•		•	•	Į	Į
0130	0131	0132	0133	0134	0135	0136	0137	0138	0139	013A	013B	013C	013D	013E	013F
i	1	IJ	ij	Ĵ	ĵ	Ķ	ķ	K	Ĺ	ĺ	Ļ	ļ	Ľ	ľ	Ŀ
0140	0141	0142	0143	0144	0145	0146	0147	0148	0149	014A	014B	014C	014D	014E	014F
	_	_	1	_			~	~	,			=	_	×	
l.	Ł	ł	N	n	Ņ	ņ	N	n	n	Ŋ	ŋ	0	0	0	0
0150	0151	0152	0153	0154	0155	0156	0157	0158	0159	015A	015B	015C	015D	015E	015F
Ő	ő	Œ	œ	Ŕ	ŕ	R	r	Ř	ř	Ś	ś	Ŝ	ŝ	Ş	S
		<u> </u>	- C	••	_	", "	, ,	• •	•				_	3	Ş
0160	0161	0162	0163	0164	0165	0166	0167	0168	0169	016A	016B	016C	016D	016E	016F
Š	š	Ţ	ţ	Ť	ť	Ŧ	ŧ	Ũ	ũ	Ū	ū	Ŭ	ŭ	Ů	ů
0170	0171	0172	0173	0174	0175	0176	0177	0178	0179	017A	017B	017C	017D	017E	
Ű	ű	Ų	ų	Ŵ	ŵ	Ŷ	ŷ	Ÿ	Ź	ź	Ż	ż	ž	ž	

Latin Extended-B

Block from 0180 to 024F

0192	01FC	01FD	01FE	01FF	0218	0219	021A	021B	0237
f	Æ	æ	Ø	Ø	Ş	Ş	Ţ	ţ	J

Spacing Modifier Letters

Block from 02B0 to 02FF

02C6	02C7	02C9	02D8	02D9	02DA	02DB	02DC	02DD
_	•	_	U	•	0		~	"
						(

Combining Diacritical Marks

Block from 0300 to 036F

0300	0301	0302	0303	0304	0306	0307	0308	030A	030B	030C	0312	0313	0326	0327	0328
	_	^	~	_	U	•	••	0	11	~	6	,			
													,	5	(
0335	0336														

Greek and Coptic

Block from 0370 to 03FF

0384	0385	0386	0388	0389	038A	038C	038E	038F	0390	0391	0392	0393	0394	0395	0396
•	.4.	7 0	' E	<i>7</i> LI	71	' 0	'Y	' 0	• 4	Λ	D	_	Λ		7
		Ά	E	Ή	•	U	T	Ω	1	A	В		Δ	E	
0397	0398	0399	039A	039B	039C	039D	039E	039F	03A0	03A1	03A3	03A4	03A5	03A6	03A7
ш	Ω		V	А	A.A	N/	=			D	_	_	V	A	X
H	Θ		K	Λ	M	N	=	0	П	P	_	#	ľ	Ф	^
03A8	03A9	03AA	03AB	03AC	03AD	03AE	03AF	03B0	03B1	03B2	03B3	03B4	03B5	03B6	03B7
		ï	Ÿ	4.		./	<u> </u>	•/.		0		2		7	
Ψ	(2		Y	α	3	η	l l	U	α	6	Y	δ	3	5	η
03B8	03B9	03BA	03BB	03BC	03BD	03BE	03BF	03C0	03C1	03C2	03C3	03C4	03C5	03C6	03C7
Δ	_		2			C						_		70	40
θ		K	Λ	μ	V	5	0	π	P	5	σ	τ	U	φ	X
03C8	03C9	03CA	03CB	03CC	03CD	03CE		1				I.			
Ш	ω	ï	Ü	ó	ΰ	ώ									
T															

Cyrillic

Block from 0400 to 04FF

0401	0402	0403	0404	0405	0406	0407	0408	0409	040A	040B	040C	040E	040F	0410	0411
:	_	£			_	••	_	_		_	1	17			_
E	り		ϵ	S				Љ	њ	ħ	K	y	U	A	Б
0412	0413	0414	0415	0416	0417	0418	0419	041A	041B	041C	041D	041E	041F	0420	0421
	_	_	_	11/	_	1.0	17			8.5			_	_	
B		D	E	Ж	3	И	И	K	Л	M	H	0	П	P	
0422	0423	0424	0425	0426	0427	0428	0429	042A	042B	042C	042D	042E	042F	0430	0431
_		4	1/					-				10		_	
	У	Φ	X	Ц	Ч	Ш	Щ	Ъ	Ы	D	9	Ю	Я	a	6
		_					•				_				
0432	0433	0434	0435	0436	0437	0438	0439	043A	043B	043C	043D	043E	043F	0440	0441
_	_		_		_		<u></u>					_			_
6	S	0	e	Ж	3	u	u	K	П	M	H	0	n	p	C
		_													
0442	0443	0444	0445	0446	0447	0448	0449	044A	044B	044C	044D	044E	044F	0451	0452
								_		_	_		_	••	*
m	V	P	X	u	Ч	ш	Щ	Ъ	Ы	Ь	Э	Ю	Я	e	ガ
		- 10		-						_				_	

0453	0454	0455	0456	0457	0458	0459	045A	045B	045C	045E	045F	0462	0463	0472	0473
ś	E	S	i	ï	j	љ	њ	ħ	Ŕ	ў	Ų	ъ	ъ	θ	Ө
0474	0475	0490	0491	0492	0493	0496	0497	0498	0499	049A	049B	049C	049D	04A0	04A1
V	V	ľ	ľ	F	ટ	Ж	Ж	3	3	K	Ķ	K	K	K	K
04A2	04A3	04AA	0440	0445	0445	0.100	2151	0.100	2152	0.100	0.000				0400
-	U4A3	U4AA	04AB	04AE	04AF	04B0	04B1	04B2	04B3	04B8	04B9	04BA	04BB	04C0	04CB
Щ	Щ	Ç	Ç	Y	Y	Y	Y	X	X	Ч	04B9 4	h o4BA	h	04C0	4
		Ç	Ç				Y 04E9		Y				L	04C0	4

General Punctuation

Block from 2000 to 206F

2007	2008	200B	2012	2013	2014	2015	2018	2019	201A	201C	201D	201E	2020	2021	į
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2026	2030	2039	203A	2044		•	•	•		•	•		•	•	_
	0/	_	_	,											
•••	‰	(>												
	, , , ,			•											

Superscripts and Subscripts

Block from 2070 to 209F

2070	2074	2075	2076	2077	2078	2079	207A	207B	207C	207D	207E	2080	2081	2082	2083
0	4	5	6	7	8	9	+	_	=	()	0	1	2	3
2084	2085	2086	2087	2088	2089	208A	208B	208C	208D	208E					
4	5	6	7	8	9	+	_	=	()					

Currency Symbols

Block from 20A0 to 20CF



Letterlike Symbols

Block from 2100 to 214F

2116	2122	2126	212E
Nº	ТМ	Ω	е

Number Forms

Block from 2150 to 218F

2153	2154	2155	2156	2157	2158	2159	215A	215B	215C	215D	215E	215F
1/3	2/3	1/5	2/5	3/5	4/5	1/6	5/6	1/2	3/2	5/2	7/2	1/
75	/5	/5	75	73	/5	70	70	70	70	70	70	/

Arrows

Block from 2190 to 21FF

2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	21E6	21E7	21E8	21E9	21EA
←	1	→	1	\leftrightarrow	1	K	7	K	K		Û	\Rightarrow	Û	슣

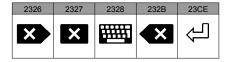
Mathematical Operators

Block from 2200 to 22FF

2202	2206	220F	2211	2212	2215	2219	221A	221E	222B	2248	2260	2264	2265	22C5
6	Δ	Π	Σ	_	/	•	√	∞	ſ	≈	#	≤	≥	•

Miscellaneous Technical

Block from 2300 to 23FF



Geometric Shapes

Block from 25A0 to 25FF



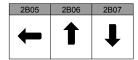
Dingbats

Block from 2700 to 27BF



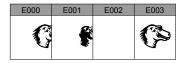
Miscellaneous Symbols and Arrows

Block from 2B00 to 2BFF



Private Use Area

Block from E000 to F8FF



Alphabetic Presentation Forms

Block from FB00 to FB4F



Arabic Presentation Forms-B

Block from FE70 to FEFF



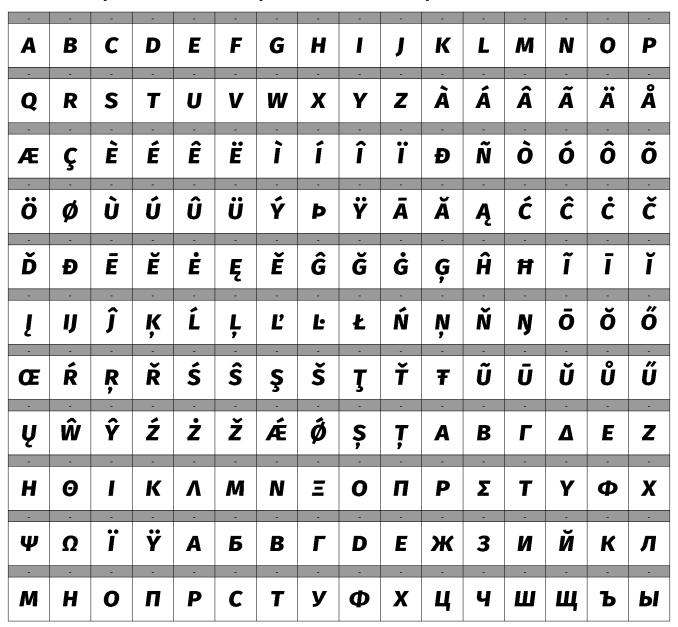
Unencoded Glyphs

All unencoded glyphs are accessible with OpenType layout feature capable applications. For a complete list of supported OpenType layout features see the next section.

Small Capitals From Capitals

-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U	•	•	-	^	~	_	·	•	••	0	11	~			
	_												,	5	4

Small Capitals From Capitals, Small Capitals



Fira Sans OT Bold Italic

-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ь	Э	Ю	Я	Ë	Ђ	ŕ	ϵ	S	ı	ï	J	љ	њ	ħ	Ŕ
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ў	Ų	ъ	θ	V	ľ	F	Ж	3	Ķ	K	к	ң	Ç	Y	¥
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X	4	h	ч	1	Ә	Й	θ	ÿ	Ŀ						

Contextual Alternates, Case-Sensitive Forms

-	-	-	-	-	-	-	-	-	-	-	-	-
_	^	~	_	(•	••	0	11	~			
											5	
	-		- ~ ~	·	·			0	0 "			-

Case-Sensitive Forms

-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	()	-	[]	{	}	i	«	-	»	į	_	_	<
-	-			•				•					•		
>	∞														

Case-Sensitive Forms, Lining Figures, Tabular Figures

-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
#	\$	%	+	0	1	2	3	4	5	6	7	8	9	<	=
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>	~	¢	£	¤	¥	§	-	0	±	×	÷		_	†	#
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
‰	€	9	Π	Σ	_	√	œ	ſ	≈	#	<u>≤</u>	2	•		

Discretionary Ligatures, Small Capitals



Denominators, Fractions

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,		_		4	_	2	4	_	c	7			_	
(<i> </i>	+	U	1	2	3	4	5	D	7	8	9	=	_

Fractions



Fractions, Numerators

-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	1	_	0	4	2	2	1.	5	6	7	8	9	-	_
1	,	_ T	U			3	4	9	O	/	0	7	_	-

Standard Ligatures



Localized Forms

-	-	-	-	-	-	-
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Old Style Figures, Proportional Figures

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#	\$	%	+	0	1	2	3	4	5	6	7	8	9	<	=
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>	~	¢	£	¤	¥	§	-	0	±	×	÷	_	t	#	‰
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€	9	Π	Σ	_	√	∞		≈	≠	≤	≥	•			

Scientific Inferiors, Subscript

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0	1	2	3	4	5	6	7	8	9	+	_	=	1)

Small Capitals

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SS	1	K	N	J	ï	A	E	н	I	Ÿ	Σ	0	Y	Ω	FI
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FL	i														

Superscript

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Tabular Figures

-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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€	9	Π	Σ	_	√	∞	ſ	≈	#	<u><</u>	2	0			

Slashed Zero

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0	Ø	0	Ø

Other

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Ψ	Ω	ï	Ϋ	ά	έ	ή	ί	ΰ	α	6	Y	δ	ε	ζ	η
θ	ι	K	λ	μ	ν	ξ	0	ρ	ς	σ	τ	U	φ	X	ψ
ω	ï	Ü	ó	ύ	ώ	Ë	Ђ	ŕ	ε	S	1	ï	J	љ	њ
ъ	Ŕ	ÿ	Ų	A	Б	В	Γ	D	E	Ж	3	И	Й	K	Л
M	Н	0	П	P	С	T	У	Φ	X	Ц	Ч	Ш	Щ	ъ	Ы
Ь	Э	Ю	Я	а	б	в	S	9	e	ж	3	u	ŭ	К	Л
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OpenType Layout Features

For details about OpenType Layout Features see the OpenType Layout tag registry.

Substitution Features



Access All Alternates

This feature makes all variations of a selected character accessible.



Small Capitals

This feature turns lowercase characters into small capitals. This corresponds to the common SC font layout. It is generally used for display lines set in Large and small caps, such as titles. Forms related to small capitals, such as oldstyle figures, may be included.



Small Capitals From Capitals

This feature turns capital characters into small capitals.



Contextual Alternates

In specified situations, replaces default glyphs with alternate forms which provide better joining behavior.



Standard Ligatures

Replaces a sequence of glyphs with a single glyph which is preferred for typographic purposes. This feature covers the ligatures which the designer/manufacturer judges should be used in normal conditions.



Discretionary Ligatures

Replaces a sequence of glyphs with a single glyph which is preferred for typographic purposes. This feature covers those ligatures which may be used for special effect, at the user's preference.



Old Style Figures

This feature changes selected figures from the default lining style to oldstyle form.



Lining Figures

This feature changes selected figures from oldstyle to the default lining form.



Proportional Figures

Replaces figure glyphs set on uniform (tabular) widths with corresponding glyphs set on glyph-specific (proportional) widths.



Tabular Figures

Replaces figure glyphs set on proportional widths with corresponding glyphs set on uniform (tabular) widths.

0

Slashed Zero

Some fonts contain both a default form of zero, and an alternative form which uses a diagonal slash through the counter. This feature allows the user to change from the default 0 to a slashed form.

7/

Numerators

Replaces selected figures which precede a slash with numerator figures, and replaces the typographic slash with the fraction slash.

/8

Denominators

Replaces selected figures which follow a slash with denominator figures.

7/8

Fractions

Replaces figures separated by a slash with 'common' (diagonal) fractions.



Superscript

Replaces lining or oldstyle figures with superior figures (primarily for footnote indication), and may replace lowercase letters with superior letters (primarily for abbreviated French titles).

X₂

Subscript

The "subs" feature may replace a default glyph with a subscript glypht.

H₂

Scientific Inferiors

Replaces lining or oldstyle figures with inferior figures (smaller glyphs which sit lower than the standard baseline, primarily for chemical or mathematical notation). May also replace lowercase characters with alphabetic inferiors.

1st

Ordinals

Replaces default alphabetic glyphs with the corresponding ordinal forms for use after figures.

(G}

Case-Sensitive Forms

Shifts various punctuation marks up to a position that works better with all-capital sequences or sets of lining figures; also changes oldstyle figures to lining figures.



Localized Forms

This feature enables localized forms of glyphs to be substituted for default forms.

Σ·Σ

Mathematical Greek

Replaces standard typographic forms of Greek glyphs with corresponding forms commonly used in mathematical notation (which are a subset of the Greek alphabet).

Positioning Features



Capital Spacing

Globally adjusts inter-glyph spacing for all-capital text. Most typefaces contain capitals and lowercase characters, and the capitals are positioned to work with the lowercase. When capitals are used for words, they need more space between them for legibility and esthetics.

Codepages

MacOS

MacOS Central Europe MacOS Croatian MacOS Cyrillic MacOS Greek MacOS Icelandic MacOS Roman MacOS Romanian MacOS Turkish

MS Windows

MS Windows 1250 Central European MS Windows 1251 Cyrillic MS Windows 1252 Western (ANSI) MS Windows 1253 Greek MS Windows 1254 Turkish MS Windows 1257 Baltic

ISO

ISO 8859- 1 Latin 1 (Western) ISO 8859- 2 Latin 2 (Central Europe) ISO 8859- 3 Latin 3 (Tu, Malt, Gal, Esp) ISO 8859- 4 Latin 4 (Baltic) ISO 8859- 5 Cyrillic ISO 8859- 9 Latin 5 (Turkish) ISO 8859-10 Latin 6 (Scandinavian) ISO 8859-13 Latin 7 (Baltic 2) ISO 8859-15 Latin 9 ISO 8859-16 Latin 10

Languages

Information about languages is mainly based on the Unicode Common Locale Data Repository. For details visit the Unicode CLDR Project.

Latin

Afar Afrikaans Albanian Asu Basque Bemba Bena Bosnian Breton Catalan Chiga Colognian Cornish Crimean Tatar

Croatian Czech Danish Dutch Embu **English** Esperanto Estonian Faroese Filipino Finnish French Frisian West

Friulian

Ga Galician Ganda German Gusii Hungarian Icelandic Indonesian Interlingua Irish Italian Jiu

Kabuverdianu Kalaallisut Kalenjin Kamba Kikuyu Kinyarwanda Koro Kurdish Latvian Lithuanian Low German Luo Luyia

Machame Makonde Malagasy

Malav Maltese Manx Maori Meru Moldavian Morisyen North Ndebele Norwegian Bokmål Norwegian Nynorsk

Occitan Oromo Polish Portuguese Romanian Romansh Rombo Rwa Saho Samburu Sami Northern Sango Sena Serbian

Nyanja

Nyankole

Sidamo Slovak Slovenian Soga Somali Sorbian, Lower Sorbian, Upper Sotho, Northern Sotho, Southern South Ndebele Spanish Swahili Swati Swedish Swiss German

Taita Taroko Teso Tsonga Tswana Turkish Tyap Vunio Wolof Xhosa Zulu

Cyrillic

Azerbaijani Bashkir Belarusian Bulgarian

Buriat Chechen Kazakh Macedonian Mongolian Russian Serbian Tatar

Shambala

Shona

Uighur Uzbek

Greek

Greek