

# Fira Sans Hair Italic

Carrois' Technical Documentation

A-z				€	Lat	Łłŧ	Ext	Ελ	Κιρ
								2 <sub>2</sub> 2 <sup>2</sup>	b↻B B↻B
								fi	st
619	123	123	123	0	7/	/8	7/8		
								x <sup>2</sup>	x <sub>2</sub> 1 <sup>st</sup>
								(G}	Œ↻Œ g↻g
								[1]	
								Σ↻Σ	
								N↻E	T↻o '↻'

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# Encoded Characters

All encoded characters should be accessible with every unicode capable application.  
For details about Unicode Blocks visit the [Unicode Website](#).

## Basic Latin

Block from 0000 to 007F

000D	0020	0021	0022	0023	0024	0025	0026	0027	0028	0029	002A	002B	002C	002D	002E
		:	"	#	\$	%	&	'	(	)	*	+	,	-	.
002F	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	003A	003B	003C	003D	003E
/	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>
003F	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	004A	004B	004C	004D	004E
?	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N
004F	0050	0051	0052	0053	0054	0055	0056	0057	0058	0059	005A	005B	005C	005D	005E
O	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^
005F	0060	0061	0062	0063	0064	0065	0066	0067	0068	0069	006A	006B	006C	006D	006E
_	`	a	b	c	d	e	f	g	h	i	j	k	l	m	n
006F	0070	0071	0072	0073	0074	0075	0076	0077	0078	0079	007A	007B	007C	007D	007E
o	p	q	r	s	t	u	v	w	x	y	z	{		}	~

## Latin-1 Supplement

Block from 0080 to 00FF

00A0	00A1	00A2	00A3	00A4	00A5	00A6	00A7	00A8	00A9	00AA	00AB	00AC	00AD	00AE	00AF
	ı	ç	£	¤	¥	¦	§	¨	©	ª	«	¬	­	®	¯
00B0	00B1	00B2	00B3	00B4	00B5	00B6	00B7	00B8	00B9	00BA	00BB	00BC	00BD	00BE	00BF
°	±	²	³	´	µ	¶	·	¸	¹	º	»	¼	½	¾	¿
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	Í	Î	Ï
00D0	00D1	00D2	00D3	00D4	00D5	00D6	00D7	00D8	00D9	00DA	00DB	00DC	00DD	00DE	00DF
Ð	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	ā	Ă	ă	Ą	ą	Ć	ć	Ĉ	ĉ	Ċ	ċ	Č	č	Ď	d'
Đ	đ	Ē	ē	Ě	ě	È	è	Ẹ	ẹ	Ě	ě	Ĝ	ĝ	Ğ	ğ
Ġ	ġ	Ģ	ģ	Ĥ	ĥ	Ħ	ħ	Ĩ	ĩ	Ī	ī	Ĵ	ĵ		
0130	0131	0132	0133	0134	0135	0136	0137	0138	0139	013A	013B	013C	013D	013E	013F
İ	ı	Ĵ	ĵ	Ĵ	ĵ	Ķ	ķ	κ	Ĺ	ĺ	Ł	ł	Ł	ł	Ł
0140	0141	0142	0143	0144	0145	0146	0147	0148	0149	014A	014B	014C	014D	014E	014F
Ł	ł	Ł	ł	Ń	ń	Ń	ņ	Ň	ň	Ň	ŋ	Ō	ō	Ŏ	ö
0150	0151	0152	0153	0154	0155	0156	0157	0158	0159	015A	015B	015C	015D	015E	015F
Ŏ	ö	Œ	œ	Ŕ	ŕ	Ŗ	ŗ	Ř	ř	Ś	ś	Ŝ	ŝ	Ş	ş
0160	0161	0162	0163	0164	0165	0166	0167	0168	0169	016A	016B	016C	016D	016E	016F
Š	š	Ţ	ţ	Ť	ť	Ț	ț	Ū	ū	Ū	ū	Ŭ	ŭ	Ů	ů
0170	0171	0172	0173	0174	0175	0176	0177	0178	0179	017A	017B	017C	017D	017E	
Ů	ů	Ų	ų	Ŵ	ŵ	Ŷ	ŷ	ÿ	Ž	ž	Ž	ž	Ž	ž	

## Latin Extended-B

Block from 0180 to 024F

0181	0186	0187	0188	0189	018A	018E	018F	0190	0191	0192	0193	0194	0196	0197	0198
Ɓ	Ɔ	Ƈ	ƈ	Ɖ	Ɗ	Ǝ	Ə	Ɛ	Ƒ	ƒ	Ɠ	Ɣ	Ɩ	ƚ	Ƙ
0199	019D	01A0	01A1	01A4	01A5	01A9	01AC	01AD	01AE	01AF	01B0	01B1	01B2	01B3	01B4
ƚ	ƞ	Ɛ	Ɇ	Ƒ	ƒ	Σ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ
01B7	01C0	01C1	01C2	01C3	01CD	01CE	01CF	01D0	01D1	01D2	01D3	01D4	01D5	01D6	01D7
Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ
01D8	01D9	01DA	01DB	01DC	01DD	01DE	01DF	01E6	01E7	01FC	01FD	01FE	01FF	0218	0219
Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ
021A	021B	0228	0229	022A	022B	0237	0241	0242	0243	0244	0245	024A	024B	024C	
Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	Ƨ	

## IPA Extensions

### Block from 0250 to 02AF

0250	0251	0252	0253	0254	0255	0256	0257	0258	0259	025A	025B	025C	025D	025E	025F
ɐ	ɑ	ɒ	ɓ	ɔ	ɔ̃	ɔ̥	ɔ̦	ə	ə̃	ɛ	ɜ	ɜ̃	ɵ	ɟ	
0260	0261	0262	0263	0264	0265	0266	0267	0268	0269	026A	026B	026C	026D	026E	026F
ɠ	ɡ	ɡ̃	ɣ	ɣ̃	ɥ	ɦ	ɦ̃	ɨ	ɨ̃	ɪ	ɪ̃	ɪ̥	ɪ̦	ɫ	ɫ̃
0270	0271	0272	0273	0274	0275	0276	0278	0279	027A	027B	027D	027E	0280	0281	0282
ɰ	ɱ	ɱ̃	ɱ̥	ɱ̦	ɴ	ɵ	œ	ø	ɹ	ɹ̃	ɹ̥	ɹ̦	ʀ	ʁ	ʂ
0283	0284	0288	0289	028A	028B	028C	028D	028E	028F	0290	0291	0292	0294	0295	0298
ʃ	ʃ̃	ʃ̥	ʃ̦	ʊ	ʊ̃	ʊ̥	ʊ̦	ʌ	ɺ	ɺ̃	ɻ	ɻ̃	ɻ̥	ɻ̦	ɿ
0299	029B	029C	029D	029F	02A1	02A2	02A4	02A7							
ɸ	ɸ̃	ɸ̥	ɸ̦	ɹ̥	ɹ̦	ɹ̥̥	ɹ̥̦	ɹ̥̥̥	ɹ̥̥̦	ɹ̥̥̥̥	ɹ̥̥̥̦	ɹ̥̥̥̥̥	ɹ̥̥̥̥̦	ɹ̥̥̥̥̥̥	ɹ̥̥̥̥̥̦

## Spacing Modifier Letters

### Block from 02B0 to 02FF

02BC	02C6	02C7	02D8	02D9	02DA	02DB	02DC	02DD
ˊ	ˋ	ˌ	ˍ	ˎ	ˏ	ː	ˑ	˒

## Combining Diacritical Marks

### Block from 0300 to 036F

0300	0301	0302	0303	0304	0306	0307	0308	0309	030A	030B	030C	0313	0314	031B	0323
◌̇	◌̈	◌̉	◌̊	◌̋	◌̌	◌̍	◌̎	◌̏	◌̐	◌̑	◌̒	◌̓	◌̔	◌̕	◌̖
0326	0327	032D	0331												
◌̗	◌̘	◌̙	◌̚												

## Greek and Coptic

### Block from 0370 to 03FF

0384	0385	0386	0388	0389	038A	038C	038E	038F	0390	0391	0392	0393	0394	0395	0396
Ͱ	ͱ	Ͳ	ͳ	ʹ	͵	Ͷ	ͷ	͸	͹	ͺ	ͻ	ͼ	ͽ	Ϳ	;
0397	0398	0399	039A	039B	039C	039D	039E	039F	03A0	03A1	03A3	03A4	03A5	03A6	03A7
Ϳ	Ϳ̇	Ϳ̈	Ϳ̉	Ϳ̊	Ϳ̋	Ϳ̌	Ϳ̍	Ϳ̎	Ϳ̏	Ϳ̐	Ϳ̑	Ϳ̒	Ϳ̓	Ϳ̔	Ϳ̕
03A8	03A9	03AA	03AB	03AC	03AD	03AE	03AF	03B0	03B1	03B2	03B3	03B4	03B5	03B6	03B7
Ϳ̖	Ϳ̗	Ϳ̘	Ϳ̙	Ϳ̚	Ϳ̛	Ϳ̜	Ϳ̝	Ϳ̞	Ϳ̟	Ϳ̠	Ϳ̡	Ϳ̢	Ϳ̣	Ϳ̤	Ϳ̥

03B8	03B9	03BA	03BB	03BC	03BD	03BE	03BF	03C0	03C1	03C2	03C3	03C4	03C5	03C6	03C7
θ	ι	κ	λ	μ	ν	ξ	ο	π	ρ	ς	σ	τ	υ	φ	χ
03C8	03C9	03CA	03CB	03CC	03CD	03CE									
ψ	ω	ϊ	ϋ	ό	ύ	ώ									

## Cyrillic

### Block from 0400 to 04FF

0400	0401	0402	0403	0404	0405	0406	0407	0408	0409	040A	040B	040C	040D	040E	040F
È	Ë	Ĥ	Ħ	€	Ɔ	Ɔ	İ	Ј	Љ	Њ	Ћ	Ќ	Ў	Ѓ	Ѕ
0410	0411	0412	0413	0414	0415	0416	0417	0418	0419	041A	041B	041C	041D	041E	041F
А	Б	В	Г	Д	Е	Ж	З	И	Й	К	Л	М	Н	О	П
0420	0421	0422	0423	0424	0425	0426	0427	0428	0429	042A	042B	042C	042D	042E	042F
Р	С	Т	У	Ф	Х	Ц	Ч	Ш	Щ	Ъ	Ы	Ь	Э	Ю	Я
0430	0431	0432	0433	0434	0435	0436	0437	0438	0439	043A	043B	043C	043D	043E	043F
а	б	в	г	д	е	ж	з	и	й	к	л	м	н	о	п
0440	0441	0442	0443	0444	0445	0446	0447	0448	0449	044A	044B	044C	044D	044E	044F
р	с	т	у	ф	х	ц	ч	ш	щ	ъ	ы	ь	э	ю	я
0450	0451	0452	0453	0454	0455	0456	0457	0458	0459	045A	045B	045C	045D	045E	045F
è	ë	ĥ	ĥ	€	Ɔ	Ɔ	İ	Ј	Љ	Њ	Ћ	Ќ	Ў	Ѓ	Ѕ
0462	0463	0472	0473	0474	0475	0490	0491	0492	0493	0496	0497	0498	0499	049A	049B
Б	б	Ө	ө	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ	Ɔ
049C	049D	04A0	04A1	04A2	04A3	04AA	04AB	04AC	04AD	04AE	04AF	04B0	04B1	04B2	04B3
К	к	К	к	Ң	ң	Ң	ң	Ң	ң	Ң	ң	Ң	ң	Ң	ң
04B6	04B7	04B8	04B9	04BA	04BB	04C0	04C1	04C2	04CB	04CC	04CF	04D0	04D1	04D2	04D3
Ч	ч	Ч	ч	Һ	һ	І	Ў	ў	Ч	ч	І	Ў	ў	Ў	ў
04D4	04D5	04D6	04D7	04D8	04D9	04DA	04DB	04DC	04DD	04DE	04DF	04E2	04E3	04E4	04E5
Æ	æ	Ё	ё	Ә	ә	Ә	ә	Ж	ж	Э	э	Й	й	Й	й
04E6	04E7	04E8	04E9	04EA	04EB	04EC	04ED	04EE	04EF	04F0	04F1	04F2	04F3	04F4	04F5
Ö	ö	Ө	ө	Ө	ө	Э	э	У	у	У	у	У	у	Ч	ч
04F6	04F7	04F8	04F9												
Г	г	Б	б												



## Cyrillic Supplement

Block from 0500 to 052F

051C 051D 0524 0525 0526 0527  
 W w П п Һ һ

## Combining Diacritical Marks Supplement

Block from 1DC0 to 1DFF

1DC4 1DC5 1DC6 1DC7  
 ˘ ˙ ˚ ˛

## Latin Extended Additional

Block from 1E00 to 1EFF

1E04	1E05	1E0C	1E0D	1E0E	1E0F	1E12	1E13	1E24	1E25	1E2E	1E2F	1E36	1E37	1E3C	1E3D
Ḃ	ḃ	Ḅ	ḅ	Ḇ	ḇ	Ḉ	ḉ	Ḥ	ḥ	Í	í	Ḍ	ḍ	Ḭ	ḭ
1E3E	1E3F	1E44	1E45	1E46	1E47	1E4A	1E4B	1E4C	1E4D	1E50	1E51	1E52	1E53	1E62	1E63
Ḑ	ḑ	Ḓ	ḓ	Ḕ	ḕ	Ḗ	ḗ	Ḙ	ḙ	Ḛ	ḛ	Ḝ	ḝ	Ṡ	ṡ
1E6C	1E6D	1E6E	1E6F	1E70	1E71	1E80	1E81	1E82	1E83	1E84	1E85	1E92	1E93	1E9E	1EA0
Ṫ	ṫ	Ṭ	ṭ	Ṱ	ṱ	Ẁ	ẁ	Ẃ	ẃ	Ẅ	ẅ	Ẇ	ẇ	Ẹ	Ḑ
1EA1	1EA2	1EA3	1EA4	1EA5	1EA6	1EA7	1EA8	1EA9	1EAA	1EAB	1EAC	1EAD	1EAE	1EAF	1EB0
Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ
1EB1	1EB2	1EB3	1EB4	1EB5	1EB6	1EB7	1EB8	1EB9	1EBA	1EBB	1EBC	1EBD	1EBE	1EBF	1EC0
Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ
1EC1	1EC2	1EC3	1EC4	1EC5	1EC6	1EC7	1EC8	1EC9	1ECA	1ECB	1ECC	1ECD	1ECE	1ECF	1ED0
Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ
1ED1	1ED2	1ED3	1ED4	1ED5	1ED6	1ED7	1ED8	1ED9	1EDA	1EDB	1EDC	1EDD	1EDE	1EDF	1EE0
Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ
1EE1	1EE2	1EE3	1EE4	1EE5	1EE6	1EE7	1EE8	1EE9	1EEA	1EEB	1EEC	1EED	1EEE	1EEF	1EF0
Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ
1EF1	1EF2	1EF3	1EF4	1EF5	1EF6	1EF7	1EF8	1EF9							
Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ	Ḃ							

## Greek Extended

### Block from 1F00 to 1FFF

1F70	1F71	1F72	1F73	1F74	1F75	1F76	1F77	1F78	1F79	1F7A	1F7B	1F7C	1F7D	1FB0	1FB1
à	á	ê	é	ñ	ñ	ì	í	ò	ó	ù	ú	ò	ó	ǎ	ā
1FB6	1FB8	1FB9	1FBA	1FBB	1FC0	1FC6	1FC8	1FC9	1FCA	1FCB	1FD0	1FD1	1FD2	1FD3	1FD6
ã	Ä	Ä	À	Á	~	ñ	È	É	È	É	ĩ	ī	ì	í	ĩ
1FD7	1FD8	1FD9	1FDA	1FDB	1FE0	1FE1	1FE2	1FE3	1FE6	1FE7	1FE8	1FE9	1FEA	1FEB	1FF6
ĩ	ĩ	ī	ì	í	ü	ū	ù	ú	ũ	ũ	ÿ	ÿ	ÿ	ÿ	ω
1FF8	1FF9	1FFA	1FFB												
Ò	Ó	Ô	Õ												

## General Punctuation

### Block from 2000 to 206F

2007	2008	200B	200C	200D	200E	200F	2012	2013	2014	2015	2018	2019	201A	201C	201D
				↑	↑	↑	—	—	—	—	'	,	,	"	"
201E	2020	2021	2022	2026	2030	2039	203A	2044							
„	†	‡	·	...	‰	<	>	/							

## 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

20AC	20B9	20BA	20BD
€	₹	₺	₪

## Letterlike Symbols

Block from 2100 to 214F

210A 2116 2122 2126 212E  
 $g$   $N^{\circ}$   $^{\text{TM}}$   $\Omega$   $e$

## Number Forms

Block from 2150 to 218F

2153 2154 2155 2156 2157 2158 2159 215A 215B 215C 215D 215E 215F  
 $\frac{1}{3}$   $\frac{2}{3}$   $\frac{1}{5}$   $\frac{2}{5}$   $\frac{3}{5}$   $\frac{4}{5}$   $\frac{1}{6}$   $\frac{5}{6}$   $\frac{1}{8}$   $\frac{3}{8}$   $\frac{5}{8}$   $\frac{7}{8}$   $\frac{1}{\phantom{0}}$

## Arrows

Block from 2190 to 21FF

2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 21E6 21E7 21E8 21E9 21EA  
 $\leftarrow$   $\uparrow$   $\rightarrow$   $\downarrow$   $\longleftrightarrow$   $\updownarrow$   $\nwarrow$   $\nearrow$   $\searrow$   $\swarrow$   $\Longleftarrow$   $\Uparrow$   $\Longrightarrow$   $\Downarrow$   $\Updownarrow$

## Mathematical Operators

Block from 2200 to 22FF

2202 2205 2206 220F 2211 2212 2215 2219 221A 221E 222B 2248 2260 2264 2265 22C5  
 $\partial$   $\otimes$   $\triangle$   $\prod$   $\Sigma$   $-$   $/$   $\cdot$   $\sqrt{\phantom{x}}$   $\infty$   $\int$   $\approx$   $\neq$   $\leq$   $\geq$   $\cdot$

## Miscellaneous Technical

Block from 2300 to 23FF

2326 2327 2328 232B 23CE  
 $\boxtimes$   $\boxtimes$   $\boxtimes$   $\boxtimes$   $\boxtimes$

## Geometric Shapes

Block from 25A0 to 25FF

25AF 25CA  
 $\square$   $\diamond$

## Dingbats

Block from 2700 to 27BF

27A1



## Miscellaneous Symbols and Arrows

Block from 2B00 to 2BFF

2B05

2B06

2B07



## Latin Extended-C

Block from 2C60 to 2C7F

2C64

2C6D

2C72

2C73

R a W w

## Latin Extended-D

Block from A720 to A7FF

A78B

A78C

A78D

A7AA

A7AD

A7AE

A7B2

A7B3

A7B4

A7B5

A7B6

A7B7

ı ı 4 H Ł I J X ß ß ω ω

## unassigned Block

Block from AB30 to ABBF

AB53



## Private Use Area

Block from E000 to F8FF

E000

E001

E002

E003



## Alphabetic Presentation Forms

Block from FB00 to FB4F

FB01

*fi*

FB02

*fl*

## Arabic Presentation Forms-B

Block from FE70 to FEFF

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

a d f y h y l p u b r

## Small Capitals From Capitals, Small Capitals

[illegible]

T T I T U Ú Æ Û Ü Û Û Ü Ü Ú Û Û Û Û  
 Û Û Û Û Û Û Û Û Û Û Û Û Û V U W  
 W W W W W X Y Ý Ê ÿ ÿ ÿ ÿ ÿ ÿ ÿ Z  
 Ž Ž Ž Ž A Б В Г Ѓ Г Д Е È Ě Ж З  
 И Й Й К Ѐ Л М Н О П Р С Т У Ё Ф  
 Х Ч Ц Ш Щ Ц Я Ъ Ь Ы Ь Ь S € Э I  
 İ J Ħ Ю Ħ Ъ Θ V F Ж 3 Қ К К Ң Қ  
 Ç ı Ÿ Ÿ X Ç Ч h ħ I Ç Ā Ä Å Ė Ė  
 Ə Ī Θ Æ Æ Ÿ Ÿ Ÿ Ÿ Ç Ĭ W A B Г Δ  
 E Z H Θ I K Λ M N Ξ O Π Ρ Σ Τ Υ  
 Φ Χ Ψ Ω I İ Ÿ Ÿ O Ω A E H Á Ą Ā  
 È É Æ Æ Æ Í Í Í Í Ò Ó ÿ Ÿ Ÿ Ÿ Ò Ó  
 ˆ ˆ ˆ ˆ ˆ ˆ ˆ ˆ ˆ ˆ ˆ ˆ ˆ ˆ ˆ  
 ℒ β ω I X

## Case-Sensitive Forms

; € { } [ ] ( ) — — — — ‹ › ‹ ›

## Discretionary Ligatures

*f* *fl*

## Denominators

$$\left( \begin{array}{c} \\ \end{array} \right) = - +$$

## Denominators, Fractions

0 1 2 3 4 5 6 7 8 9

## Fractions, Numerators

0 1 2 3 4 5 6 7 8 9

## Localized Forms

Ć Ń Ó Ś Ź i f ć ń ó ś ź fi fl fi fl  
Ć Ń Ó Ś Ź ' ' '

## Numerators

$$\left( \begin{array}{c} \text{ } \\ \text{ } \\ \text{ } \end{array} \right) = - +$$



## Old Style Figures, Proportional Figures

0 1 2 3 4 5 6 7 8 9 # − ¢ ¤ \$ €  
 £ ₣ ₹ £ ¥ ≈ ~ ÷ = > ≥ ∞ ∫ < ≤ ¬  
 − × ≠ ∂ ‰ ‰ + ± ∏ √ ∑ ∅ § ° † ‡

## Old Style Figures, Tabular Figures

0 1 2 3 4 5 6 7 8 9 # − ¢ ¤ \$ €  
 £ ₣ ₹ £ ¥ ≈ ~ ÷ = > ≥ ∞ ∫ < ≤ ¬  
 − × ≠ ∂ ‰ ‰ + ± ∏ √ ∑ ∅ § ° † ‡

## Stylistic Alternates, Stylistic Set 1

Б 4 7 7 [ β 4 [ Б 7 7

## Small Capitals

À Á Â Ã Ä Å Æ Ç È É Ê Ë Ì Í Î Ï Ñ Ò Ó  
 Ô Õ Ö × Ø Ù Ú Û Ü Ý Þ ß à á â ã

## Tabular Figures

0 1 2 3 4 5 6 7 8 9 # − ¢ ¤ \$ €  
 £ ₣ ₹ £ ¥ ≈ ~ ÷ = > ≥ ∞ ∫ < ≤ ¬  
 − × ≠ ∂ ‰ ‰ + ± ∏ √ ∑ ∅ § ° † ‡

## Slashed Zero

0 0 0 0

## Other

/? @

# OpenType Layout Features

For details about OpenType Layout Features see the [OpenType Layout tag registry](#).

## Substitution Features

2<sup>2</sup>2<sup>2</sup>

### Access All Alternates

This feature makes all variations of a selected character accessible.

b>B

### 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.

B>B

### Small Capitals From Capitals

This feature turns capital characters into small capitals.

fi

### 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.

st

### 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.

619

### Old Style Figures

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

123

### Lining Figures

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

123

### Proportional Figures

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

123

### 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.



### Denominators

Replaces selected figures which follow a slash with denominator figures.



### 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).



### Subscript

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



### Ordinals

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



### 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.



### Stylistic Alternates

Many fonts contain alternate glyph designs for a purely esthetic effect; these don't always fit into a clear category like swash or historical. This feature replaces the default forms with the stylistic alternates.



### Stylistic Set 1

Glyphs in stylistic sets may be designed to harmonise visually, interact in particular ways, or otherwise work together.



### 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.



### Kerning

Adjusts amount of space between glyphs, generally to provide optically consistent spacing between glyphs.



## Mark Positioning

Positions mark glyphs with respect to base glyphs.

# 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	Ga	Machame	Shona
Afrikaans	Galician	Makonde	Sidamo
Akan	Ganda	Malagasy	Slovak
Albanian	German	Malay	Slovenian
Asu	Gusii	Maltese	Soga
Azerbaijani	Hausa	Manx	Somali
Bambara	Hungarian	Maori	Sorbian, Lower
Basque	Icelandic	Masai	Sorbian, Upper
Bemba	Igbo	Meru	Sotho, Northern
Bena	Indonesian	Moldavian	Sotho, Southern
Bosnian	Interlingua	Morisyen	South Ndebele
Breton	Irish	Nama	Spanish
Catalan	Italian	North Ndebele	Swahili
Chiga	Jju	Norwegian Bokmål	Swati
Cornish	Kabuverdianu	Norwegian Nynorsk	Swedish
Crimean Tatar	Kalaallisut	Nyanja	Swiss German
Croatian	Kalenjin	Nyankole	Taita
Czech	Kamba	Occitan	Taroko
Danish	Kikuyu	Oromo	Teso
Dutch	Kinyarwanda	Polish	Tsonga
Embu	Koro	Portuguese	Tswana
English	Koyra Chiini	Romanian	Turkish
Esperanto	Koyraboro Senni	Romansh	Tyap
Estonian	Kpelle	Rombo	Venda
Ewe	Kurdish	Rwa	Vietnamese
Faroese	Langi	Saho	Vunjo
Filipino	Latvian	Samburu	Welsh
Finnish	Lingala	Sami Northern	Wolof
French	Lithuanian	Sango	Xhosa
Frisian West	Low German	Sena	Yoruba
Friulian	Luo	Serbian	Zulu
Fulah	Luyia	Shambala	

## Cyrillic

Azerbaijani	Buriat	Mongolian	Tatar
Bashkir	Chechen	Russian	Uighur
Belarusian	Kazakh	Serbian	Ukrainian
Bulgarian	Macedonian	Tajik	Uzbek

## Greek

Greek