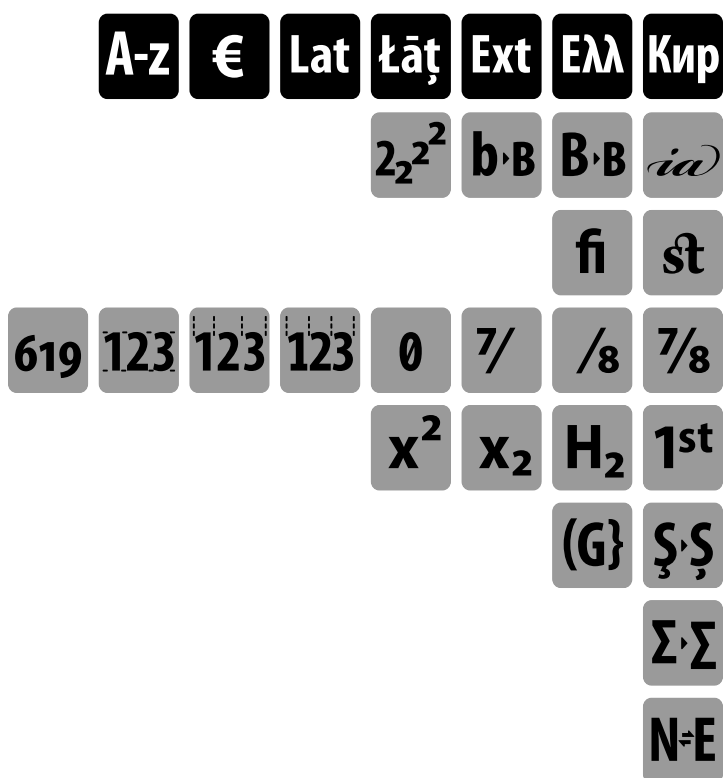


# Fira Sans OT

Technical Documentation



Copyright © 2013 by Carrois Type Design

No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior written consent of the publisher.

This publication and the information herein is furnished AS IS, is subject to change without notice, and should not be construed as a commitment by Carrois Type Design. Carrois Type Design assumes no responsibility for any errors or inaccuracies, makes no warranty of any kind (express, implied or statutory) with respect to this publication, and expressly disclaims any and all warranties of merchantability, fitness for particular purposes and noninfringement of third party rights.

Brand or product names, used in this publication, are the trademarks or registered trademarks of their respective holders.

For questions and comments please contact:

Carrois Corporate  
Simplonstr. 54  
10245 Berlin  
Germany  
Tel.: +49 (30) 920 389 66  
e-Mail: [post@carrois.com](mailto:post@carrois.com)  
Internet: [www.carrois.com](http://www.carrois.com)

Document generated 2013/12/18-18:08:17  
with e-font PDF Generator

# Table of Content

Encoded Characters	4
Basic Latin	4
Latin-1 Supplement	4
Latin Extended-A	5
Latin Extended-B	5
Spacing Modifier Letters	5
Combining Diacritical Marks	6
Greek and Coptic	6
Cyrillic	6
General Punctuation	7
Superscripts and Subscripts	7
Currency Symbols	7
Letterlike Symbols	7
Number Forms	8
Arrows	8
Mathematical Operators	8
Miscellaneous Technical	8
Geometric Shapes	8
Dingbats	8
Miscellaneous Symbols and Arrows	9
Private Use Area	9
Alphabetic Presentation Forms	9
Arabic Presentation Forms-B	9
Unencoded Glyphs	10
Small Capitals From Capitals	10
Small Capitals From Capitals, Small Capitals	10
Contextual Alternates, Case-Sensitive Forms	11
Case-Sensitive Forms	11
Case-Sensitive Forms, Lining Figures, Tabular Figures	11
Discretionary Ligatures, Small Capitals	11
Denominators, Fractions	11
Fractions	12
Fractions, Numerators	12
Standard Ligatures	12
Localized Forms	12
Old Style Figures, Proportional Figures	12
Scientific Inferiors, Subscript	12
Small Capitals	12
Superscript	13
Tabular Figures	13
Slashed Zero	13
Other	13
OpenType Layout Features	16
Substitution Features	16
Positioning Features	17
Codepages	19
MacOS	19
MS Windows	19
ISO	19
Languages	20
Latin	20
Cyrillic	20
Greek	20

# Encoded Characters

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

## Basic Latin

Block from 0000 to 007F

0000	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
.	/	0	1	2	3	4	5	6	7	8	9	:	;	<	=
003E	003F	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	004A	004B	004C	004D
>	?	@	A	B	C	D	E	F	G	H	I	J	K	L	M
004E	004F	0050	0051	0052	0053	0054	0055	0056	0057	0058	0059	005A	005B	005C	005D
N	O	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]
005E	005F	0060	0061	0062	0063	0064	0065	0066	0067	0068	0069	006A	006B	006C	006D
^	_	`	a	b	c	d	e	f	g	h	i	j	k	l	m
006E	006F	0070	0071	0072	0073	0074	0075	0076	0077	0078	0079	007A	007B	007C	007D
n	o	p	q	r	s	t	u	v	w	x	y	z	{		}
007E															
	~														

## 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
đ	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	ď
0110	0111	0112	0113	0114	0115	0116	0117	0118	0119	011A	011B	011C	011D	011E	011F
Ð	đ	Ē	ē	Ě	ě	Ė	ė	Ę	ę	Ě	ě	Ĝ	ĝ	Ğ	ğ
0120	0121	0122	0123	0124	0125	0126	0127	0128	0129	012A	012B	012C	012D	012E	012F
Ġ	ġ	Ģ	ģ	Ĥ	ĥ	Ħ	ħ	Ĩ	ĩ	Ī	ī	Ĵ	ĵ	Ķ	ķ
0130	0131	0132	0133	0134	0135	0136	0137	0138	0139	013A	013B	013C	013D	013E	013F
İ	ı	Ĳ	ĳ	Ĵ	ĵ	Ķ	ķ	κ	Ĺ	ĺ	Ł	ł	Ľ	ľ	Ḻ
0140	0141	0142	0143	0144	0145	0146	0147	0148	0149	014A	014B	014C	014D	014E	014F
Ṭ	ṭ	Ṯ	ṯ	Ṱ	ṱ	Ṳ	ṳ	Ṵ	ṵ	Ṷ	ṷ	Ṹ	ṹ	Ṻ	ṻ
0150	0151	0152	0153	0154	0155	0156	0157	0158	0159	015A	015B	015C	015D	015E	015F
Ŏ	ŏ	Œ	œ	Ř	ř	Ŕ	ŕ	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	Ŧ	ŧ	Ũ	ũ	Ū	ū	Ŭ	ŭ	Ű	ű
0170	0171	0172	0173	0174	0175	0176	0177	0178	0179	017A	017B	017C	017D	017E	
Ű	ű	Ų	ų	Ŵ	ŵ	Ŷ	ŷ	Ÿ	Ž	ž	Ž	ž	Ž	ž	

## Latin Extended-B

Block from 0180 to 024F

0192	01FC	01FD	01FE	01FF	0218	0219	021A	021B	0237
ƒ	Ɛ	æ	ø	ø	ſ	ſ	Ţ	ţ	ı

## Spacing Modifier Letters

Block from 02B0 to 02FF

02C6	02C7	02C9	02D8	02D9	02DA	02DB	02DC	02DD
ˆ	˘	ˉ	˙	•	◌	◌	˜	˝

## Combining Diacritical Marks

Block from 0300 to 036F

0300	0301	0302	0303	0304	0306	0307	0308	030A	030B	030C	0312	0313	0326	0327	0328
˘	˙	ˆ	˜	–	˘	•	••	◌	”	✓	‘	’	,	ˆ	◌
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
’	ˆ	Α	Ε	Η	Ι	Ο	Υ	Ω	ΐ	Α	Β	Γ	Δ	Ε	Ζ
0397	0398	0399	039A	039B	039C	039D	039E	039F	03A0	03A1	03A3	03A4	03A5	03A6	03A7
Η	Θ	Ι	Κ	Λ	Μ	Ν	Ξ	Ο	Π	Ρ	Σ	Τ	Υ	Φ	Χ
03A8	03A9	03AA	03AB	03AC	03AD	03AE	03AF	03B0	03B1	03B2	03B3	03B4	03B5	03B6	03B7
Ψ	Ω	ΐ	ΰ	ά	έ	ή	ί	ΰ	α	β	γ	δ	ε	ζ	η
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

0401	0402	0403	0404	0405	0406	0407	0408	0409	040A	040B	040C	040E	040F	0410	0411
Ё	Ѣ	Ѓ	Є	Ѕ	І	Ї	Ј	Љ	Њ	Ѧ	Ќ	Ў	Ѱ	А	Б
0412	0413	0414	0415	0416	0417	0418	0419	041A	041B	041C	041D	041E	041F	0420	0421
В	Г	Д	Е	Ж	З	И	Й	К	Л	М	Н	О	П	Р	С
0422	0423	0424	0425	0426	0427	0428	0429	042A	042B	042C	042D	042E	042F	0430	0431
Т	У	Ф	Х	Ц	Ч	Ш	Щ	Ъ	Ы	Ь	Э	Ю	Я	а	б
0432	0433	0434	0435	0436	0437	0438	0439	043A	043B	043C	043D	043E	043F	0440	0441
в	г	д	е	ж	з	и	й	к	л	м	н	о	п	р	с
0442	0443	0444	0445	0446	0447	0448	0449	044A	044B	044C	044D	044E	044F	0451	0452
т	у	ф	х	ц	ч	ш	щ	ъ	ы	ь	э	ю	я	ё	ђ

0453	0454	0455	0456	0457	0458	0459	045A	045B	045C	045E	045F	0462	0463	0472	0473
í	€	Œ	ï	ï	j	љ	њ	ћ	ќ	ђ	џ	џ	џ	џ	џ
0474	0475	0490	0491	0492	0493	0496	0497	0498	0499	049A	049B	049C	049D	04A0	04A1
V	v	Г	г	Ф	ф	Ж	ж	З	з	К	к	К	к	К	к
04A2	04A3	04AA	04AB	04AE	04AF	04B0	04B1	04B2	04B3	04B8	04B9	04BA	04BB	04C0	04CB
Н	н	Џ	џ	У	у	Ў	ў	Х	х	Ц	ц	Һ	һ	І	Џ
04CC	04CF	04D8	04D9	04E2	04E3	04E8	04E9	04EE	04EF						
Ч	І	Ə	ə	Й	й	Ө	ө	Ү	ү						

## General Punctuation

Block from 2000 to 206F

2007	2008	200B	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
€

## Letterlike Symbols

Block from 2100 to 214F

2116	2122	2126	212E
N <sub>0</sub>	™	Ω	e

## Number Forms

Block from 2150 to 218F

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

## Arrows

Block from 2190 to 21FF

2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	21E6	21E7	21E8	21E9	21EA
←	↑	→	↓	↔	↕	↖	↗	↘	↙	⇐	⇑	⇒	⇓	⇕

## Mathematical Operators

Block from 2200 to 22FF

2202	2206	220F	2211	2212	2215	2219	221A	221E	222B	2248	2260	2264	2265	22C5
∂	Δ	∏	Σ	−	/	⋅	√	∞	∫	≈	≠	≤	≥	⋅

## Miscellaneous Technical

Block from 2300 to 23FF

2326	2327	2328	232B	23CE
✕	✕	⌨	✕	↩

## Geometric Shapes

Block from 25A0 to 25FF

25AF	25CA
◻	◊

## Dingbats

Block from 2700 to 27BF

27A1
➡






## Miscellaneous Symbols and Arrows

Block from 2B00 to 2BFF

2B05	2B06	2B07
←	↑	↓

## Private Use Area

Block from E000 to F8FF

E000	E001	E002	E003
			

## Alphabetic Presentation Forms

Block from FB00 to FB4F

FB01	FB02
fi	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

˘	˙	˚	˛	˜	˝	˞	˟	ˠ	ˡ	ˢ	ˣ	ˤ	˥	˦	˧
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

## Small Capitals From Capitals, Small Capitals

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Q	R	S	T	U	V	W	X	Y	Z	À	Á	Â	Ã	Ä	Å
Æ	Ç	È	É	Ê	Ë	Ì	Í	Î	Ï	Ð	Ñ	Ò	Ó	Ô	Õ
Ö	Ø	Ù	Ú	Û	Ü	Ý	Þ	ÿ	Ā	Ă	Ą	Ć	Ĉ	Č	Ď
Ě	Ɖ	Ē	Ĕ	Ė	Ę	Ė	Ĝ	Ğ	Ġ	Ĥ	Ħ	Ĩ	Ī	Ĵ	Ķ
Ĳ	Ĵ	Ĵ	Ĵ	Ĵ	Ĵ	Ĵ	Ĵ	Ĵ	Ĵ	Ĵ	Ĵ	Ĵ	Ĵ	Ĵ	Ĵ
Œ	Ŕ	Ŗ	Ř	Ś	Ŝ	Ş	Š	Ţ	Ť	Ŧ	Ũ	Ū	Ŭ	Ů	Ű
Ų	Ŵ	Ŷ	Ž	Ž	Ž	Ž	Ž	Ž	Ž	Ž	Ž	Ž	Ž	Ž	Ž
Η	Θ	Ι	Κ	Λ	Μ	Ν	Ξ	Ο	Π	Ρ	Σ	Τ	Υ	Φ	Χ
Ψ	Ω	İ	ÿ	Α	Β	Γ	Δ	Ε	Ζ	Θ	Ι	ΰ	Κ	Λ	Μ
М	Н	О	П	Р	С	Т	У	Ф	Х	Ц	Ч	Ш	Щ	Ъ	Ы

-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ь	Э	Ю	Я	Ё	Ђ	Ѓ	Є	Ѕ	І	Ї	Ј	Љ	Њ	Ћ	Ќ
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ў	Џ	Ъ	Ѧ	Ѣ	Г	Ғ	Ж	З	Қ	К	Ҝ	Ң	Ҥ	Ҧ	Ү
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ҳ	Ч	Һ	Ҷ	І	Ә	Й	Ө	Ү	Љ						

## Contextual Alternates, Case-Sensitive Forms

-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
˘	˙	ˆ	˜	ˉ	˘	˙	˚	˛	˜	˘	˙	˚	˛	˜	˘

## Case-Sensitive Forms

˘	(	)	-	[	]	{	}	ı	«	-	»	¿	-	—	‹
-	-														
›	∞														

## Case-Sensitive Forms, Lining Figures, Tabular Figures

#	\$	%	+	0	1	2	3	4	5	6	7	8	9	<	=
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>	˘	ç	£	¤	¥	§	¬	°	±	×	÷		—	†	‡
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
‰	€	ð	Π	Σ	-	√	∞	∫	≈	≠	≤	≥	◊		

## Discretionary Ligatures, Small Capitals

-	-
FI	FL

## Denominators, Fractions

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

## Fractions

-

## Fractions, Numerators

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

## Standard Ligatures

-	-
fi	fl

## Localized Forms

-	-	-	-	-	-	-
Ş	ş	Ț	ț	ı	Ł	ł

## Old Style Figures, Proportional Figures

-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
#	\$	%	+	0	1	2	3	4	5	6	7	8	9	<	=
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>	~	ç	£	¤	¥	§	¬	°	±	×	÷	—	†	‡	‰
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
€	ð	Π	Σ	-	√	∞	∫	≈	≠	≤	≥	◊			

## Scientific Inferiors, Subscript

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

## Small Capitals

-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS	I	K	N	J	ï	A	E	H	I	ÿ	Σ	O	Y	Ω	FI
-	-														
FL	ı														

## Superscript

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

## Tabular Figures

-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
#	\$	%	+	0	1	2	3	4	5	6	7	8	9	<	=
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>	~	ç	£	¤	¥	§	¬	°	±	×	÷	—	†	‡	‰
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
€	ð	Π	Σ	-	√	∞	∫	≈	≠	≤	≥	◊			

## Slashed Zero

-	-	-	-
0	0	0	0

## Other

-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
¤	ı	-	¼	½	¾	Đ	×	Ý	Ɔ	đ	ý	Ɔ	Ā	ā	Ă
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ă	Ȧ	ȧ	Ć	ć	Ĉ	ĉ	Č	č	Ď	d'	Đ	đ	Ē		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ē	Ě	ě	Ė	ė	Ɛ	ɛ	Ě	ě	Ĝ	ĝ	Ğ	ğ	Ġ	ğ	Ġ
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ġ	Ĥ	ĥ	Ħ	ħ	Ĩ	ĩ	Ī	ī	Ĭ	ĭ	Į	į	İ	IJ	ij
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ĵ	ĵ	Ʒ	Ʒ	Ʒ	Ł	ł	Ł	ł	Ł	ł	Ł	ł	Ł	ł	Ń
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ń	Ń	Ń	Ń	Ń	Ń	Ń	Ń	Ń	Ń	Ń	Ń	Ń	Ń	Ń	Ń
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ŕ	ŕ	Ř	ř	Ś	ś	Ŝ	ŝ	Ş	ş	Š	š	Ț	ț	Ț	ț
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ț	ț	Ũ	ũ	Ū	ū	Ů	ů	Ů	ů	Ů	ů	Ț	ț	Ŵ	ŵ

Ŷ	ŷ	Ž	ž	Ž	ž	Ž	ž	Ĳ	æ	Ø	ø	Ј	ˉ	˘	˙
ˆ	˜	ˉ	˘	˙	˚	˛	˜	˘	˙	˚	˛	˜	˘	˙	˚
˙	˚	А	Ѐ	Н	І	О	У	Ω	Ї	Α	Β	Γ	Δ	Ε	Ζ
Η	Θ	Ι	Κ	Λ	Μ	Ν	Ξ	Ο	Π	Ρ	Σ	Τ	Υ	Φ	Χ
Ψ	Ω	İ	ÿ	ά	έ	ή	ί	ύ	α	β	γ	δ	ε	ζ	η
θ	ι	κ	λ	μ	ν	ξ	ο	ρ	ς	σ	τ	υ	φ	χ	ψ
ω	ï	ü	ó	ú	ώ	ë	ħ	í	€	₠	ı	İ	Ј	Љ	Њ
ћ	Ќ	Ў	Џ	А	Б	В	Г	Д	Е	Ж	З	И	Й	К	Л
М	Н	О	П	Р	С	Т	У	Ф	Х	Ц	Ч	Ш	Щ	Ъ	Ы
Ь	Э	Ю	Я	а	б	в	г	д	е	ж	з	и	й	к	л
м	н	о	п	р	с	т	у	ф	х	ц	ч	ш	щ	ъ	ы
ь	э	ю	я	ё	ђ	ѓ	€	₠	ı	İ	Ј	Љ	Њ	ћ	ќ
ў	џ	Ѣ	ѣ	Ѧ	ѧ	Ѩ	ѩ	Ѫ	ѫ	Ѭ	ѭ	Ѯ	ѯ	Ѱ	ѱ
Қ	қ	К	к	Ғ	ғ	Ң	ң	Ҥ	ҥ	Ү	ү	Ұ	ұ	Х	х
Ч	ч	Һ	һ	І	ı	ç	ç	Ə	ə	Й	й	Ө	ө	Ү	ү
			—	—	№	€	1/3	2/3	1/5	2/5	3/5	4/5	1/6	5/6	1/8

-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/8	5/8	7/8	1/	←	↑	→	↓	↔	↕	↖	↗	↘	↙	↩	↪
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
⇒	⇩	⇧	-	/	•	•	✕	✕	⌨	✕	↩	□	➡	➡	⬆
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
⬇	🦖	🦖		🦖		🌐		,	~						

# 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.

x<sup>2</sup>**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).

x<sub>2</sub>**Subscript**

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

H<sub>2</sub>**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.

1<sup>st</sup>**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.

ſſ

**Localized Forms**

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

ΣΣ

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

## Cyrillic

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

## Greek

Greek