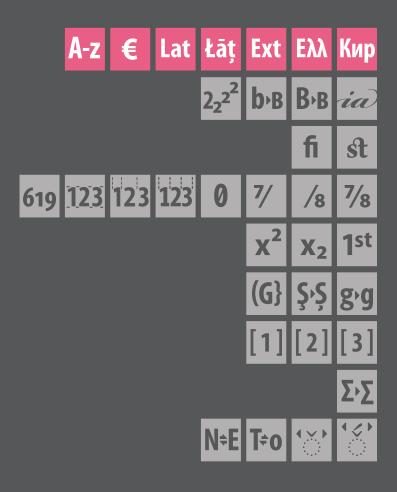
Fira Sans Four

Technical Documentation



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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

000D	0020	0021	0022	0023	0024	0025	0026	0027	0028	0029	002A	002B	002C	002D	002E
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003F	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	004A	004B	004C	004D	004E
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006F	0070	0071	0072	0073	0074	0075	0076	0077	0078	0079	007A	007B	007C	007D	007E
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Latin-1 Supplement

Block from 0080 to 00FF

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00C0	00C1	00C2	00C3	00C4	00C5	00C6	00C7	00C8	00C9	00CA	00CB	00CC	00CD	00CE	00CF
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00D0	00D1	00D2	00D3	00D4	00D5	00D6	00D7	00D8	00D9	00DA	00DB	00DC	00DD	00DE	00DF
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Latin Extended-A

Block from	0100 to	017F

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		2					`.	(
0140	0141	0142	0143	0144	0145	0146	0147	0148	0149	014A	014B	014C	014D	014E	014F
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	307														
A second	\subseteq		No. of					Sec. 2	V. 7	V 2	C.7	Sec. 2	V. 7	S. 7	C.2
0170	0171	0172	0173	0174	0175	0176	0177	0178	0179	017A	017B	017C	017D	017E	
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S. 7	0.7	No. of	Ç.;				V /								

Latin Extended-B

Block from 0180 to 024F

0180	0181	0182	0183	0184	0185	0186	0187	0188	0189	018A	018B	018C	018D	018E	018F
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12					× 2				`			120			λ_{i_0,j_2}
01A0	01A1	01A2	01A3	01A4	01A5	01A6	01A7	01A8	01A9	01AA	01AB	01AC	01AD	01AE	01AF
18 N	25	100	21.8	1.5	2.8										
5, Z	X 7	5.7	× 2	. /	×2					× -	V .				S. 7
01B0	01B1	01B2	01B3	01B4	01B5	01B6	01B7	01B8	01B9	01BA	01BB	01BC	01BD	01BE	01BF
	7.5				/		7	>	Α.		2.5	***			2.5
V. 2	5.7	ν.					× 2	()				()	4 A	100	
01C0	01C1	01C2	01C3	01C4	01C5	01C6	01C7	01C8	01C9	01CA	01CB	01CC	01CD	01CE	01CF
				· · · /	N 196	25								152	
				10	2.7	4.15			. ,		,	,		e e	
01D0	01D1	01D2	01D3	01D4	01D5	01D6	01D7	01D8	01D9	01DA	01DB	01DC	01DD	01DE	01DF
V	28	X		w.			.1	.4			2.	λ.	_		

01E0	01E1	01E2	01E3	01E4	01E5	01E6	01E7	01E8	01E9	01EA	01EB	01EC	01ED	01EE	01EF
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	e g e	. /	100	×	3.5		5 / C	`\	`	42	100	42	12	()	1
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\sim	15. /	18			1		2.5		À.		E.	1	4	1	4
	10	2.7			5 / C		/				\$ 7	. \	100	1, 2	× 2
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		2.5	- 1 to 1 t		N 20 N		2.5		7.			28	25	28	4
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4. ×	N.			10	3.7	<i>(</i>)		5 25 2	S. N. Z.		X	X ₃ ,		ı	3
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	2.5	. %					7.5		÷	25	64	.)			
4	1		: 15	S. 7			N. Ja			Sa ag			:		

IPA Extensions

Block from 0250 to 02AF

0250	0251	0252	0253	0254	0255	0256	0257	0258	0259	025A	025B	025C	025D	025E	025F
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0280	0281	0282	0283	0284	0285	0286	0287	0288	0289	028A	028B	028C	028D	028E	028F
Š	4	S							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 N 5 P		\	<i>i</i> .	:	X
0290	0291	0292	0293	0294	0295	0296	0297	0298	0299	029A	029B	029C	029D	029E	029F
02A0	02A1	02A2	02A3	02A4	02A5	02A6	02A7	02A8	02A9	02AA	02AB	02AC	02AD	02AE	02AF
75 + 7	× N 2		7 11 8 34	73	28 8 70	* 2 - 1 * 2 - 2 * 2 - 2	v - v			S				s s	

Spacing Modifier Letters

02B0	02B1	02B2	02B4	02B7	02B8	02B9	02BA	02BB	02BC	02BF	02C0	02C6	02C7	02C8	02CA
													\sim		1
02CB	02CC	02CE	02CF	02D0	02D1	02D4	02D6	02D7	02D8	02D9	02DA	02DB	02DC	02DD	02DE
0206	0200	UZCE	UZGF	0200	0201	0204	0200	0207					0200		UZDE
				•											
02E0	02E1	02E2	02E3	02E4	02E5	02E6	02E7	02E8	02E9	02EE					

Combining Diacritical Marks

Block from 0300 to 036F

0300	0301	0302	0303	0304	0306	0307	0308	0309	030A	030B	030C	030D	030F	0311	0312
0313	0316	0317	0318	0319	031A	031B	031C	031D	031E	031F	0320	0321	0323	0324	0325
0326	0327	0328	0329	032A	032B	032C	032D	032F	0330	. 0331	0332	0334	0335	0336	0339
033A	033B	033C	033D	0342	 0345	035C	0361	29 ₄							

Greek and Coptic

Block from 0370 to 03FF

0370	0371	0372	0373	0374	0375	0376	0377	037A	037B	037C	037D	037E	037F	0384	0385
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						- 1	2.00			× .		7			
0386	0387	0388	0389	038A	038C	038E	038F	0390	0391	0392	0393	0394	0395	0396	0397
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	•				X 50		\ /			- 3					
0398	0399	039A	039B	039C	039D	039E	039F	03A0	03A1	03A3	03A4	03A5	03A6	03A7	03A8
25		,,,		V			25						1000		
5, 2							5, 2								-
03A9	03AA	03AB	03AC	03AD	03AE	03AF	03B0	03B1	03B2	03B3	03B4	03B5	03B6	03B7	03B8
200				e e	2.			2.			<u>(, </u>	, e - e -		2.8	
V. 2							.		- 4, - 5 D						
03B9	03BA	03BB	03BC	03BD	03BE	03BF	03C0	03C1	03C2	03C3	03C4	03C5	03C6	03C7	03C8
	,			V	>	28			6.						
			~ p*		Sec. 1	X 7		5. 7				N	. 7		8.2

03C9	03CA	03CB	03CC	03CD	03CE	03CF	03D0	03D1	03D2	03D3	03D4	03D5	03D6	03D7	03D8
			2				- 40	S				1			25
12		٠	8.7	4	(7)	\	X	4.7				1.7	~ " ×		5.2
03D9	03DA	03DB	03DC	03DD	03DE	03DF	03E0	03E1	03F0	03F1	03F2	03F3	03F4	03F5	03F6
25		,			1	/ -		100			6.5		28	get to	
1,7						1	1				X .		S. 7		4.2
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	0.8	100				11/	1000	11/							
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Cyrillic

Block from 0400 to 04FF

om 0400) to 04FF	-												
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			1									***	7	
				10 m						<i>y</i> 5			/	
0411	0412	0413	0414	0415	0416	0417	0418	0419	041A	041B	041C	041D	041E	041F
					$\sqrt{2}$	4.5		1					28	
1.5	- 3												s. V	
0421	0422	0423	0424	0425	0426	0427	0428	0429	042A	042B	042C	042D	042E	042F
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	0462	0463			0466	0467	0468			046B				046F
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5.57								10 N N N)		1	× .
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				7.3		\rightarrow		1.4						
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04B1	04B2		04B4	04B5	04B6	04B7							04BE	04BF
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04C1					04C6	04C7	04C8	0409	04CA	04CB				04CF
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Cyrillic Supplement

Block from 0500 to 052F



Phonetic Extensions

Block from 1D00 to 1D7F



Phonetic Extensions Supplement

Block from 1D80 to 1DBF



Combining Diacritical Marks Supplement

Block from 1DCO to 1DFF



Latin Extended Additional

Block from	1E00 + 6	1CCC
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1E02	1E03	1E04	1E05	1E0A	1E0B	1E0C	1E0D	1E0E	1E0F	1E12	1E13	1E1E	1E1F	1E24	1E25
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1E92	1E93	1E9E	1EA0	1EA1	1EA2	1EA3	1EA4	1EA5	1EA6	1EA7	1EA8	1EA9	1EAA	1EAB	1EAC
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Greek Extended

Block from 1F00 to 1FFF

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	2.	15	14	24	27	22	27			**	1.1	17	17		17	
1F10	1F11	1F12	1F13	1F14	1F15	1F18	1F19	1F1A	1F1B	1F1C	1F1D	1F20	1F21	1F22	1F23	
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1F24	1F25	1F26	1F27	1F28	1F29	1F2A	1F2B	1F2C	1F2D	1F2E	1F2F	1F30	1F31	1F32	1F33	
200	27	17	77		V	4		9	17	7	7			14	1.7	
1F34	1F35	1F36	1F37	1F38	1F39	1F3A	1F3B	1F3C	1F3D	1F3E	1F3F	1F40	1F41	1F42	1F43	
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1F44	1F45	1F48	1F49	1F4A	1F4B	1F4C	1F4D	1F50	1F51	1F52	1F53	1F54	1F55	1F56	1F57
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General Punctuation

Block from 2000 to 206F

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Superscripts and Subscripts

Block from 2070 to 209F

2070	2074	2075	2076	2077	2078	2079	207A		207C	207D	207E	2080	2081	2082
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2083	2084	2085	2086	2087	2088	2089	208A	208B	208C	208D	208E			
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Currency Symbols

Block from 20A0 to 20CF



Letterlike Symbols

Block from 2100 to 214F



Number Forms

Block from 2150 to 218F



Arrows

Block from 2190 to 21FF



Mathematical Operators

Block from 2200 to 22FF



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



Latin Extended-C

Block from 2C60 to 2C7F



Latin Extended-D

Block from A720 to A7FF



unassigned Block

Block from AB30 to ABBF

AB53

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

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



Small Capitals From Capitals, Contextual Alternates, Small Capitals

Small Capitals From Capitals, Small Capitals



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Contextual Alternates, Stylistic Set 3



Case-Sensitive Forms



Discretionary Ligatures

Denominators

Denominators, Fractions

10 3 4 3 4 5 6 8 3 4

Fractions, Numerators

Localized Forms

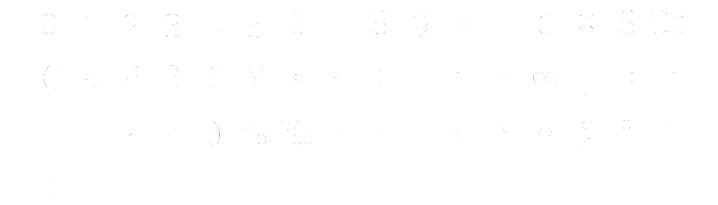
Numerators



Old Style Figures, Proportional Figures



Old Style Figures, Tabular Figures



Stylistic Alternates, Stylistic Set 1



Small Capitals



Stylistic Set 2



Tabular Figures



Slashed Zero

Other



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.



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.

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).



Subscript

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

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.

ŞıŞ

Localized Forms

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

g₂g

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, interract in particular ways, or otherwise work together.



Stylistic Set 2



Stylistic Set 3



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.



Mark to Mark Positioning

Positions marks with respect to other marks. Required in various non-Latin scripts like Arabic.

Codepages

Mac₀S

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 8859-7 Greek

ISO 8859-9 Latin 5 (Turkish)
ISO 8859-10 Latin 6 (Scandinavian)
ISO 8859-13 Latin 7 (Baltic 2)
ISO 8859-14 Latin 8 (Celtic)
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 <u>Unicode CLDR Project</u>.

Latin

Afar Ga **Afrikaans** Galician Ganda Akan Albanian German Asu Gusii Azerbaijani Hausa Bambara Hawaiian Basque Hungarian Bemba Icelandic Bena Igbo Bosnian Indonesian Breton Interlingua Catalan Irish Central Morocco Tamazight Italian Chiga Jju Colognian Kabuverdianu Cornish Kabyle Crimean Tatar Kalaallisut Croatian Kaleniin Czech Kamba Danish Kikuyu Dutch Kinyarwanda Embu Koro English Koyra Chiini Esperanto Koyraboro Senni Estonian Kpelle Ewe Kurdish Faroese Langi **Filipino** Latvian **Finnish** Lingala

Lithuanian

Luo

Luyia

Low German

Machame Makonde Malagasy Malay Maltese Manx Maori Masai Meru Moldavian Morisyen Nama North Ndebele Norwegian Bokmål Norwegian Nynorsk Nyanja Nyankole Occitan 0 **Oromo** Polish Portuguese Romanian Romansh Rombo Rwa Saho Samburu Sami Northern Sango Sena Serbian Shambala Shona

Soga Somali Sorbian, Lower Sorbian, Upper Sotho, Northern Sotho. Southern South Ndebele Spanish Swahili Swati Swedish Swiss German Tachelhit Taita Taroko Teso Tonga Tsonga Tswana Turkish Tvap Venda Vietnamese Vunjo Welsh Wolof Xhosa Yoruba 7ulu

Slovak

Slovenian

Cyrillic

Frisian West

French

Friulian

Fulah

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

Carrois Type Design 26

Sidamo

Greek

Greek