Fira Sans Thin

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
			П	#	\$	%	&	1			*	+	1	_	
002F	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	003A	003B	003C	003D	003E
	\bigcirc	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
?	(1)	\triangle	В		\Box	E	F	G	Н			K	L	M	\mathbb{N}
004F	0050	0051	0052	0053	0054	0055	0056	0057	0058	0059	005A	005B	005C	005D	005E
\bigcirc	P	Q	R	S	T		\bigvee	$\bigvee\bigvee$	X	Y	Z				\wedge
005F	0060	0061	0062	0063	0064	0065	0066	0067	0068	0069	006A	006B	006C	006D	006E
		a	b	\subset	d	е	f	g	h	j	j	K		m	\cap
006F	0070	0071	0072	0073	0074	0075	0076	0077	0078	0079	007A	007B	007C	007D	007E
\bigcirc	р	Q	r	S	t	U	\bigvee	$\bigvee\bigvee$	X	У	Z	$\left\{ \right.$		}	~

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	¢	£	Ø	¥	 	§		(C)	a	«	\neg	_	R	_
00B0	00B1	00B2	00B3	00B4	00B5	00B6	00B7	00B8	00B9	00BA	00BB	00BC	00BD	00BE	00BF
0	<u>+</u>	2	3		μ	\P		5	1	0	$\rangle\rangle$	1/4	1/2	3/4	نے
00C0	00C1	00C2	00C3	00C4	00C5 O	00C6	00C7	00C8	00C9	00CA	00CB	00CC	00CD	00CE	00CF
À	Á	Â	Ä	Ä	Ă	Æ	\bigcup_{S}	È	É	Ê	Ë	Ì	ĺ	Î	
00D0	00D1	00D2	00D3	00D4	00D5	00D6	00D7	00D8	00D9	00DA	00DB	00DC	00DD	00DE	00DF
Ð	$\widetilde{\mathbb{N}}$	Ò	Ó	Ô	$\widetilde{\bigcirc}$	$\ddot{\bigcirc}$	×	\Diamond	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	$\stackrel{\cdot \cdot \cdot}{\ominus}$	Ì	ĺ	Î	
00F0	00F1	00F2	00F3	00F4	00F5	00F6	00F7	00F8	00F9	00FA	00FB	00FC	00FD	00FE	00FF
ð	$\tilde{\cap}$	Ò	Ó	Ô	$\widetilde{\bigcirc}$	$\ddot{\bigcirc}$	•	\emptyset	Ù	Ú	Û	Ü	ý	þ	·· y

Latin Extended-A

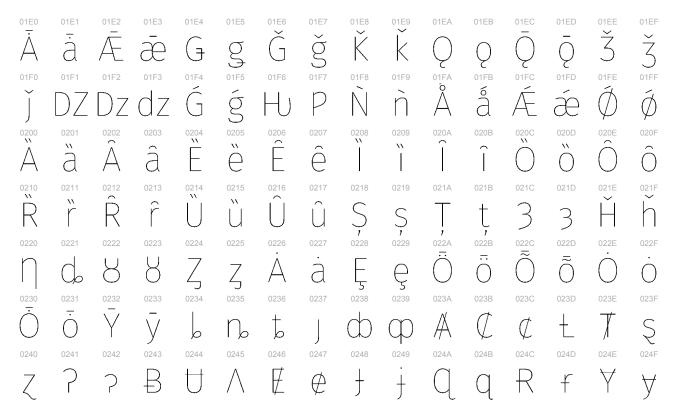
Block from 0100 to 017F

0100	0101	0102	0103	0104	0105	0106	0107	0108	0109	010A	010B	010C	010D	010E	010F
\triangle	a	А	a	Ą	ą		\subset		\subset		\subset		\subset		C
0110	0111	0112	0113	0114	0115	0116	0117	0118	0119	011A	011B	011C	011D	011E	011F
Ð	đ	E	ē	Ĕ	ĕ	E	ė	Ę	ę	Ě	ě	Ĝ	ĝ	G	ğ
0120	0121	0122	0123	0124	0125	0126	0127	0128 ~	0129	012A	012B	012C	012D	012E	012F
G	ġ	Ģ	ģ	Н	h	Ħ	ħ		$\widetilde{\mid}$		Ī		Ĭ	Į	į
0130	0131	0132	0133	0134	0135	0136	0137	0138	0139	013A	013B	013C	013D	013E	013F
			ij		Ĵ	Ķ	Ķ	K	L			ļ	<u></u>	[Ŀ
0140	0141	0142	0143	0144	0145	0146	0147	0148	0149	014A	014B	014C	014D	014E	014F
[.	Ł	ł	\mathbb{N}	ń	Ņ	\bigcap_{i}	\mathbb{N}	ň	'n	Ŋ	Ŋ	\bigcirc	Ō	\bigcirc	Ŏ
0150	0151	0152	0153	0154	0155	0156	0157	0158	0159	015A	015B	015C	015D	015E	015F
\bigcirc	Ő	\bigcirc	\bigcirc	R	ŕ	Ŗ	ŗ	R	ř	S	Ś	S	Ŝ	Ş	Ş
0160	0161	0162	0163	0164	0165	0166	0167	0168 ~	0169 ~	016A	016B	016C	016D	016E O	016F O
S	Š	Ţ	ţ	T	ť	Ŧ	ŧ		Ü		Ū		Ŭ		ŭ
0170	0171	0172	0173	0174	0175	0176	0177	0178	0179	017A	017B •	017C	017D	017E	
\bigcup	Ű	Ų	Ų	$\bigvee\bigvee$	$\hat{\mathbb{W}}$	Y	ŷ	Y	Z	Ź	Z	Ż	Z	ž	

Latin Extended-B

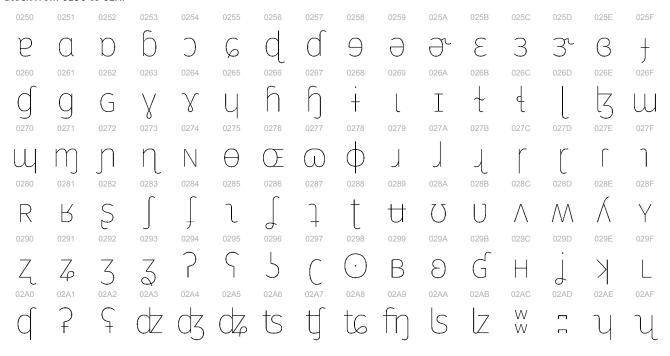
Block from 0180 to 024F

0180	0181	0182	0183	0184	0185	0186	0187	0188	0189	018A	018B	018C	018D	018E	018F
b	B	Б	5	5	Ъ	\bigcup		C	Ð	\Box	\exists	d	5		\ominus
0190	0191	0192	0193	0194	0195	0196	0197	0198	0199	019A	019B	019C	019D	019E	019F
\mathcal{E}	F	f	G	\bigvee	h		+	\langle	K	ŧ	\bigwedge	\bigcup	\mathcal{N}		\bigcirc
01A0	01A1	01A2	01A3	01A4	01A5	01A6	01A7	01A8	01A9	01AA	01AB	01AC	01AD	01AE	01AF
\bigcirc	\bigcirc	$\bigcirc \bigcirc$	$\bigcirc \bigcirc$	P	þ	R	5	S	\sum	٩	ţ	Т	f	Ţ	U'
01B0	01B1	01B2	01B3	01B4	01B5	01B6	01B7	01B8	01B9	01BA	01BB	01BC	01BD	01BE	01BF
U	\bigcirc	\bigcup	Y	\bigvee	Z	Z	3	5	5	3	2	5	5	5	P
01C0	01C1	01C2	01C3	01C4	01C5	01C6	01C7	01C8	01C9	01CA	01CB	01CC	01CD	01CE	01CF
		‡	!	DŽ	Dž	dž	LJ	Lj	lj	N	Nj	nj	Ă	ă	ľ
01D0	01D1	01D2	01D3	01D4	01D5	01D6	01D7	01D8	01D9	01DA	01DB	01DC	01DD	01DE	01DF
	UIDI	0102	0100	×	:- []						• • • • • • • • • • • • • • • • • • • •	.N.	0100	0100	



IPA Extensions

Block from 0250 to 02AF



Spacing Modifier Letters

02B0	02B1	02B2	02B4	02B7	02B8	02B9	02BA	02BB	02BC	02BF	02C0	02C6	02C7	02C8	02CA
h	ĥ	j	١	W	У	/	//	1	,	(7	^	~	I	_
02CB	02CC	02CE	02CF	02D0	02D1	02D4	02D6	02D7	02D8	02D9	02DA O	02DB	02DC ~	02DD	02DE
				•	•		+	_							1
	1	_	_	•								C			
02E0	02E1	02E2	02E3	02E4	02E5	02E6	02E7	02E8	02E9	02EE					
Y	l	S	Χ	9		\dashv	4		1	11					

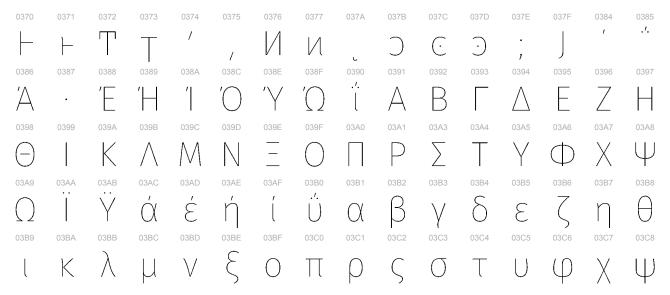
Combining Diacritical Marks

Block from 0300 to 036F

0300	0301	0302	0303 ~	0304	0306	0307	0308	0309 ?	030A O	030B //	030C	030D 	030F \\	0311	0312 (
0313	0316	0317	0318	0319	031A ¬	031B J	031C	031D	031E	031F	0320	0321	0323	0324	0325
0326	0327	0328	⊣ 0329	⊢ 032A	032B	032C	(032D	⊥ 032F	T 0330	+ 0331	0332	J 0334	0335	0336	O 0339
1 033A	5 033B	C 033C	I 033D X	□ 0342 ~	0345	∨ 035C	0361	^	~	_	_	~	_)
	_														

Greek and Coptic

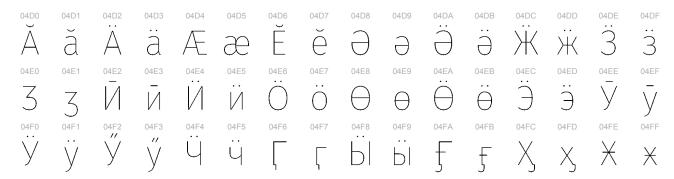
Block from 0370 to 03FF



Cyrillic

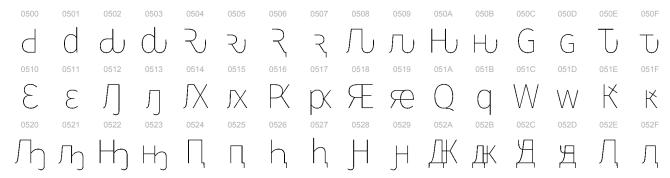
Block from 0400 to 04FF

0400	0401	0402	0403	0404	0405	0406	0407	0408	0409	040A	040B	040C	040D	040E	040F
		h		\subset	S				16	Н	h	К	V	\mathcal{Y}	Ц
0410	0411	0412	0413	0414	0415	0416	0417	0418	0419	041A	041B	041C	041D	041E	041F
\triangle	Б	В		Д		\mathbb{H}	3	\mathcal{N}	И	К	Л	M	Н	\bigcirc	
0420	0421	0422	0423	0424	0425	0426	0427	0428	0429	042A	042B	042C	042D	042E	042F
P		T	\bigvee	\bigcirc	X	Ц	Ч		Щ	Ъ	Ы	Ь	\supset	Θ	Я
0430	0431	0432	0433	0434	0435	0436	0437	0438	0439	043A	043B	043C	043D	043E	043F
a	6	В		Д	е	Ж	3	И	Ĭ	К	Л	M	Н	\bigcirc	
0440	0441	0442	0443	0444	0445	0446	0447	0448	0449	044A	044B	044C	044D	044E	044F
D	\subset	T	\bigvee	ф	X	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	$\stackrel{\cdot \cdot }{\ominus}$	ħ	ŕ	\in	S	j	Ï	j	Љ	Њ	ħ	Ŕ	Ń	Ĭ	Ц
0460	0461	0462	0463	0464	0465	0466	0467	0468	0469	046A	046B	046C	046D	046E	046F
()	\bigcup	5	Ь	H	\vdash	\bigwedge	\wedge	\mathbb{H}	\mathbb{H}	X	X	K	K	Ž	ž
0470	0471	0472	0473	0474	0475	0476	0477	0478	0479	048A	048B	048C	048D	048E	048F
Ψ	Ψ	Θ	Θ	\bigvee	\bigvee	\bigvee	V	Оу	ОУ	Ц	Ŋ	Б	Ъ	R	Q
0490	0491	0492	0493	0494	0495	0496	0497	0498	0499	049A	049B	049C	049D	049E	049F
Γ	٢	F	F	Б	Ŋ	\mathbb{K}	\mathbb{H}	3	3	К	Қ	K	\mathbb{K}	K	K
04A0	04A1	04A2	04A3	04A4	04A5	04A6	04A7	04A8	04A9	04AA	04AB	04AC	04AD	04AE	04AF
K	K	Ц	Ц	Н	Н	lh	Π_{j}	Q	Q	(Ç	ļ	Ţ	Y	Y
04B0	04B1	04B2	04B3	04B4	04B5	04B6	04B7	04B8	04B9	04BA	04BB	04BC	04BD	04BE	04BF
¥	¥	X	X	Ц	Ц	Ц	Ц	Ч	Ч	h	h	\bigcirc	Θ	Ç	Ç
04C0	04C1	04C2	04C3	04C4	04C5	04C6	04C7	04C8	04C9	04CA	04CB	04CC	04CD	04CE	04CF
	Ж	Ж	К	К	$\int_{-\infty}^{\infty}$	Д	Н	Н	Ц	H,	Ч	4	M	M,	



Cyrillic Supplement

Block from 0500 to 052F



Phonetic Extensions

Block from 1D00 to 1D7F



Phonetic Extensions Supplement

Block from 1D80 to 1DBF



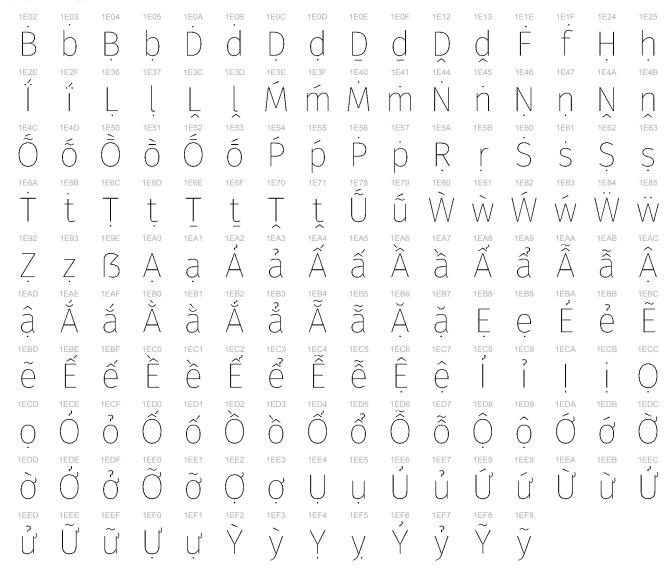
Combining Diacritical Marks Supplement

Block from 1DCO to 1DFF



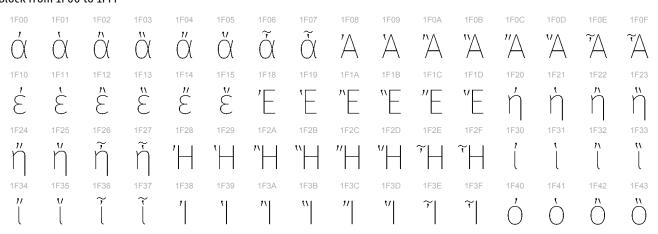
Latin Extended Additional

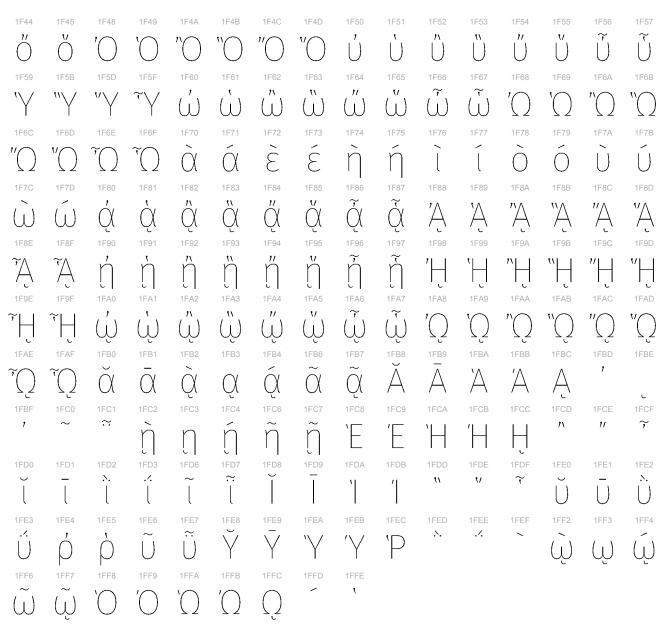
Block from 1E00 to 1EFF



Greek Extended

Block from 1F00 to 1FFF





General Punctuation

Block from 2000 to 206F

2007	2008	200B	200C	200D	200E	200F	2012	2013	2014	2015	2016	2018	2019	201A	201C
				*								1	,	,	11
201D	201E	2020	2021	2022	2026	2030	2039	203A	203F	2044	204A				
11	11	+	‡	•		%0	<	>	$\overline{}$		7				

Superscripts and Subscripts

Block from 2070 to 209F

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

Currency Symbols

Block from 20A0 to 20CF



Letterlike Symbols

Block from 2100 to 214F



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	$\frac{2}{5}$	3/5	4/5	1/6	5/6	1/8	3/8	5/8	7/8	1/

Arrows

Block from 2190 to 21FF



Mathematical Operators

Block from 2200 to 22FF



Miscellaneous Technical

Block from 2300 to 23FF

2326 2327 2328 232B 23CE

Geometric Shapes

Block from 25A0 to 25FF



Dingbats

Block from 2700 to 27BF

 \rightarrow

Miscellaneous Symbols and Arrows

Block from 2B00 to 2BFF



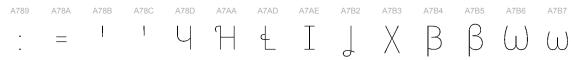
Latin Extended-C

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

E000 E001 E002





Alphabetic Presentation Forms

Block from FB00 to FB4F







Arabic Presentation Forms-B

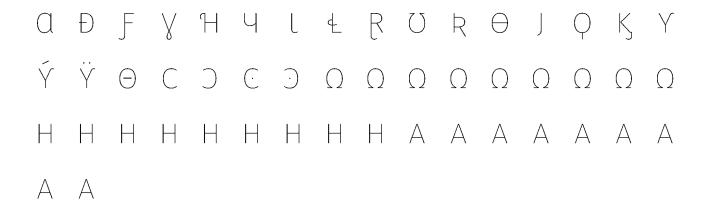
Block from FE70 to FEFF

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.

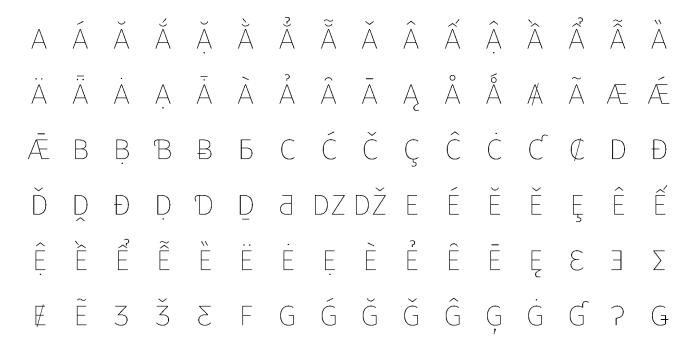
Small Capitals From Capitals



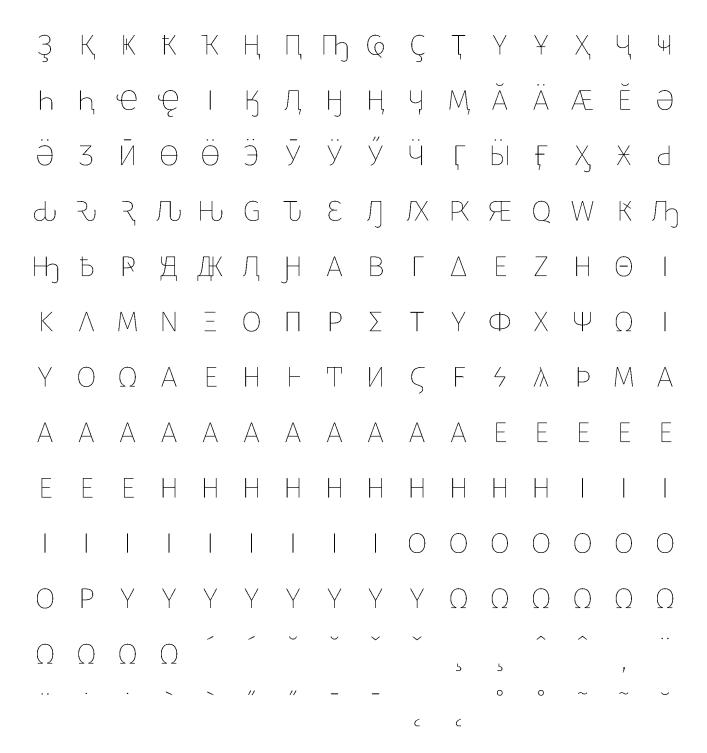
Small Capitals From Capitals, Contextual Alternates, Small Capitals

ï Ÿ

Small Capitals From Capitals, Small Capitals



Ĭ Î ĺ Ĥ Ĥ Ħ Н Н ĵ Ř + $\left| \right|$ K Ķ + KM M Ш N + Ł M Ó N N \mathbb{N} N Ö $\overline{\bigcirc}$ Ō Ó $\hat{\bigcirc}$ $\widetilde{\bigcirc}$ \bigcirc \bigcirc \bigcirc Ò \bigcirc Ó Õ $\bar{\tilde{\bigcirc}}$ Ò $\tilde{\bigcirc}$ Ó Ō \bigcirc Q 8 P Ř Ŕ Ř Š Ŕ Ŕ Ś S R Ŗ R R P Þ \bigcirc Ŝ Ť Ş Ş Ş B \ominus Τ Ŧ Ţ $\check{\bot}$ 7 \top \top T 5 Ŭ Ŭ \bigcup Ь Ũ $\widehat{\mathbb{W}}$ \bigvee^{\cdots} Ŵ Ŵ \bigvee X P Ź Ž Ż 3 Z \forall A Б Ë È 3 E Ж И K В ý T \bigcirc M P X П S Љ Н \in \ni Я ħ ħ Ъ Ы Ю Ь ž \mathbb{H} XX Ψ \bigcirc H Ж

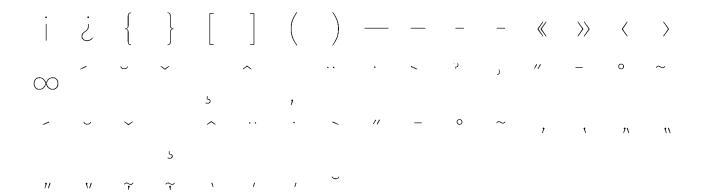


J X B W I

Contextual Alternates, Stylistic Set 3

et.

Case-Sensitive Forms



Discretionary Ligatures



Denominators

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



Numerators

Old Style Figures, Proportional Figures

0 1 2 3 4 5 6 7 8 9 # − ¢
$$x \ Dp$$

€ $t \ P \ ₹ \ f \ Y \approx ~ \div = > ≥ ∞ \int < ≤$

¬ − × ≠ ∂ %% + ± ∏ $\sqrt{\Sigma} \ S \ ^{\circ}$ †

‡

Old Style Figures, Tabular Figures

0 1 2 3 4 5 6 7 8 9 # − ¢
$$x \ Dp$$

€ $t \ P \ f \ f \ x \sim \div = > ≥ ∞ \int < ≤$

¬ − × ≠ 3 % % + ± $T \ \sqrt{\Sigma} \ S \ ^$ †

‡

Stylistic Alternates, Stylistic Set 1

Small Capitals

Stylistic Set 2

Б 4 4 Б

Tabular Figures

0 1 2 3 4 5 6 7 8 9 # − ¢ α \$ Dp € Ł P ₹ £ ¥ α ~ ÷ = > ≥ ∞ ∫ < ≤ ¬ − × ≠ ∂ %% + ± ∏ √ ∑ ◊ § ° † ‡

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.

/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).



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

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 8859-7 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

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

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

Uighur

Uzbek

Ukrainian

Slovak

Slovenian

Cyrillic

Frisian West

Finnish

French

Friulian

Fulah

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

Lingala

Luo

Luyia

Lithuanian

Low German

Carrois Type Design 26

Shona

Sidamo

Greek

Greek