# Fira Sans Book

**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
		ļ	11	#	\$	%	&	ı	(	)	*	+	,	-	•
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
?	@	Α	В	C	D	Ε	F	G	Η		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	е	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
0	p	q	r	S	t	u	V	W	X	У	Z	{		}	~

# Latin-1 Supplement

Block from 0080 to 00FF



## 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	Ĕ	ĕ	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	h	Ħ	ħ	Ĩ	ĩ	Ī	Ī	Ĭ	Ĭ	Į	į
0130	0131	0132	0133	0134	0135	0136	0137	0138	0139	013A	013B	013C	013D	013E	013F
İ	I	IJ	ij	Ĵ	ĵ	Ķ	ķ	K	Ĺ	l	Ļ	ļ	Ľ	ľ	Ŀ
0140	0141	0142	0143	0144	0145	0146	0147	0148	0149	014A	014B	014C	014D	014E	014F
ŀ	Ł	ł	Ň	ń	Ņ	ņ	Ň	ň	'n	Ŋ	ŋ	0	ō	Ŏ	ŏ
0150	0151	0152	0153	0154	0155	0156	0157	0158	0159	015A	015B	015C	015D	015E	015F
Ö	ő	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	Ŧ	ŧ	Ü	ũ	Ū	ū	Ŭ	ŭ	Ŭ	ů
0170	0171	0172	0173	0174	0175	0176	0177	0178	0179	017A	017B •	017C	017D	017E	
Ü	ű	Ų	Ų	W	Ŵ	Ŷ	ŷ	Y	Ź	Ź	Z	Ż	Ž	ž	

# Latin Extended-B

Block from 0180 to 024F

ĭ	Ŏ	ŏ	Ŭ	ŭ	Ū	ü	Ű	ű	Ü	ŭ	Ü	ü	Ә	Ä	ä
01D0	01D1	<b>‡</b>	01D3	DŽ	01D5	dž	<b>LJ</b>	<b>Lj</b>	<b>lj</b>	01DA	Nj 01DB	nj	Å 01DD	ă 01DE	01DF
01C0	01C1	01C2	01C3	01C4	01C5	01C6	01C7	01C8	01C9	01CA	01CB	01CC	01CD	01CE	01CF
ď	Ω	U	Y	y	Z	Z	3	3	3	3	2	5	5	5	p
01B0	01B1	01B2	01B3	01B4	01B5	01B6	01B7	01B8	01B9	01BA	01BB	01BC	01BD	01BE	01BF
Q	Q	Q	൱	P	þ	Ŕ	S	S	Σ	٩	ţ	Т	ť	Ţ	ľ
01A0	01A1	01A2	01A3	01A4	01A5	01A6	01A7	01A8	01A9	01AA	01AB	01AC	01AD	01AE	01AF
3	F	f	Ğ	Y	h	l	+	K	ƙ	ŧ	λ	Ш	N	η	θ
0190	0191	0192	0193	0194	0195	0196	0197	0198	0199	019A	019B	019C	019D	019E	019F
ħ	В	Б	Б	Ъ	Ъ	Э	C	ር	Ð	D	Б	đ	Q	3	Э
0180	0181	0182	0183	0184	0185	0186	0187	0188	0189	018A	018B	018C	018D	018E	018F

01E4 01E5 01EA 01E0 01E1 01E2 01E3 01E7 01EB 01EC ā **Š** ž K Å k G æ G Q Q 01F1 01F9 å Å ģ É Ġ Ø Ó j æ DZ Dz dz Н P Ń n 0206 **E** 0209 020B ë å â Ë ô ê A A 0 0 0210 **R** 0213 0215 0218 **S** Ú û 3 **Ş** ţ, 022B **Ö** u 0224 0225 0226 022F ō 8 0 Α à 0 Z ę 0 0233 0236 023A 023B 023E 023F ÿ  $\mathcal{C}$ Æ t ф ۵ ф ¢ Ş Ŋ 0244 0245 0246 0248 024E 0243 0247 024A 024B 024C 024D 024F Y ₿ E Ŧ Ħ R Ø ¥ У q

### **IPA Extensions**

Block from 0250 to 02AF

þ	5	ç	ďz	ďЗ	dz,	ts	ʧ	ts	fŋ	ال	lz	W W	-	Ч	પ
<b>Z</b>	<b>4</b>	<b>3</b> 02A2	<b>3</b> 02A3	02A4	02A5	<b>5</b>	02A7	O2A8	<b>B</b>	<b>8</b>	<b>G</b>	02AC	J 02AD	) 02AE	02AF
0290	0291	0292	0293	0294	0295	0296	0297	0298	0299	029A	029B	029C	029D	029E	029F
R	R	Ş	ſ	Ţ	ι	Ţ	ļ	†	tt	Ω	υ	Λ	M	Λ	Υ
0280	0281	0282	0283	0284	0285	0286	0287	0288	0289	028A	028B	028C	028D	028E	028F
Ш	m	n	n	N	θ	Œ	$\bigcirc$	ф	٦	J	ı	r	r	ſ	1
0270	<b>g</b>	<b>G</b>	<b>y</b>	0274	0275	<b>h</b>	<b>f</b>	0278	0279	<b>I</b> 027A	<b>4</b>	<b>d</b>	027D	15 027E	027F
0260	0261	0262	0263	0264	0265	0266	0267	0268	0269	026A	026B	026C	026D	026E	026F
Э	α	р	b	Э	Ģ	þ	ď	9	Ә	₽	3	3	3	В	f
0250	0251	0252	0253	0254	0255	0256	0257	0258	0259	025A	025B	025C	025D	025E	025F

# **Spacing Modifier Letters**

Block from	02R0 to	02FF
DIOCK HOIH	0200 10	0211

02B0	02B1	02B2	02B4	02B7	02B8	02B9	02BA	02BB	02BC	02BF	02C0	02C6	02C7	02C8	02CA
h	ĥ	j	,	W	У	/	//	4	7	(	7	^	~	1	_
02CB	02CC	02CE	02CF	02D0	02D1	02D4	02D6	02D7	02D8	02D9	02DA	02DB	02DC	02DD	02DE
_				<b>V</b>	•	т	+	_	J	•	0		~	"	1
02E0	<b>■</b> 02E1	02E2	02E3	02E4	02E5	02E6	02E7	02E8	02E9	02EE		Č			
γ	l	S	X	٢	٦	1	4	1		77					

# **Combining Diacritical Marks**

#### Block from 0300 to 036F

0300	0301	0302	0303	0304	0306	0307	0308	0309	030A <b>O</b>	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	<b>-1</b> 0329	<b>L</b> 032A	032B	032C	<b>(</b> 032D	_ <b>⊥</b> 032F	0330	<b>4</b> 0331	0332	0334	• 0335	0336	<b>O</b> 0339
<b>9</b> 033A	<b>5</b> 033B	<b>C</b> 033C	033D <b>X</b>	□ 0342 ~	0345	<b>✓</b> 035C	0361	^	~	_	_	~	-	_	)

# **Greek and Coptic**

#### Block from 0370 to 03FF

l	K	λ	μ	٧	ξ	0	π	ρ	ς	σ	τ	U	φ	Χ	Ψ
03B9	03BA	03BB	03BC	03BD	03BE	03BF	03C0	03C1	03C2	03C3	03C4	03C5	03C6	03C7	03C8
Ω		Ŷ	ά	έ	ή	ί	ΰ	α	β	γ	δ	3	ζ	η	θ
03A9	03AA	03AB	03AC	03AD	03AE	03AF	03B0	03B1	03B2	03B3	03B4	03B5	03B6	03B7	03B8
Θ		K	$\Lambda$	M	N	Ξ	0	П	Р	Σ	T	Y	Φ	X	Ψ
0398	0399	039A	039B	039C	039D	039E	039F	03A0	03A1	03A3	03A4	03A5	03A6	03A7	03A8
Ά	•	Έ	Ή	1	O	Ύ	Ώ	Ï	Α	В	Γ	Δ	Ε	Z	Η
0386	0387	0388	0389	038A	038C	038E	038F	0390	0391	0392	0393	0394	0395	0396	0397
H	$\vdash$	T	Τ	/	,	И	И		Э	C	Э	•	J	,	••
0370	0371	0372	0373	0374	0375	0376	0377	037A	037B	037C	037D	037E	037F	0384	0385

# Cyrillic

Block from 0400 to 04FF

0400	0401	0402	0403	0404	0405	0406	0407	0408	0409	040A	040B	040C	040D	040E	040F
Ε	E	ħ	ı	$\epsilon$	S		ı	J	Jb	Њ	h	K	И	У	Ų
0410	0411	0412	0413	0414	0415	0416	0417	0418 L /I	0419 L <b>/</b> 1	041A	041B	041C	041D	041E	041F
А	Б	В	ı	Д	Ε	Ж	3	И	И	К	Л	M	П	O	Ш
0420	0421	0422	0423	0424	0425	0426	0427	0428	0429	042A	042B	042C	042D	042E	042F
Р		l	У	Φ	X	Ц		Ш	Щ	Þ	Ы	Ь	Э	Ю	Я
0430	<sub>0431</sub>	0432	0433	0434	0435	0436	0437	0438	0439	043A	043B	043C	043D	043E	043F
a 0440	0441	<b>B</b>	0443	Д	<b>e</b>	<b>Ж</b>	3	0448	<b>V</b>	<b>K</b>	<b>Л</b>	<b>M</b>	<b>H</b>	<b>O</b>	044F
	_									_		_			
<b>p</b>	<b>C</b>	0452	<b>y</b> 0453	ф	<b>X</b> 0455	0456	<b>4</b>	0458	0459	<b>Ъ</b>	<b>bl</b>	<b>b</b> 045C	<b>3</b>	<b>Ю</b>	<b>Я</b>
~	••	ħ	0455			0456 •	• •	0456 •	_		ħ	_	~	J	
<b>e</b>	<b>e</b>	<b>I</b> J	0463	<b>E</b>	<b>S</b>	0466	0467	0468	<b>J b</b>	<b>Њ</b>	046B	<b>K</b>	<b>V</b>	<b>y</b> 046E	<b>U</b> 046F
(J)		<b>5</b>		Æ		_		HA		X		<b>X</b>		<b>Ž</b>	<b>3</b>
0470	ω 0471	0472	<b>5</b>	0474	<b>E</b>	<b>A</b>	<b>A</b>	171\ 0478	<b>₩</b>	048A	<b>X</b> 048B	048C	<b>M</b>	048E	<b>2</b> 048F
Ψ		<b>A</b>		V	_	Ÿ	11	_		_	J	<b>5</b>		R	
0490	Ψ	0492	0493	<b>V</b> 0494	<b>V</b>	<b>V</b> 0496	<b>V</b>	O y	Oy 0499	<b>1</b> ,	<b>V</b> ,	049C	<b>5</b>	049E	<b>Q</b>
	۲		F			Ж				K		K		K	ŧ
04A0	04A1	04A2	04A3	<b>5</b>	<b>5</b> 04A5	04A6	<b>Ж</b>	<b>3</b>	<b>3</b>	04AA	<b>K</b>	04AC	K 04AD	04AE	O4AF
К	К	Н		Н	Н	_						<b>T</b>	<b>T</b>	V	
04B0	04B1	04B2	04B3	<b>■ ■</b> 04B4	04B5	1 h	<b>П</b>	04B8	<b>Q</b>	04BA	<b>S</b> 04BB	04BC	04BD	04BE	V 04BF
¥		X		Ц	Ц	u		Ч	Ч	h	h	Ą	Ą	9	
04C0	<b>Y</b>	04C2	<b>X</b>	04C4	04C5	04C6	<b>4</b>	04C8	04C9	04CA	04CB	04CC	04CD	04CE	<b>%</b>
	Ж	Ж	K	Ӄ	Д	Д	Н	Н	H,	H,	Y	y	M,	M,	l



# Cyrillic Supplement

Block from 0500 to 052F



### **Phonetic Extensions**

Block from 1D00 to 1D7F



## **Phonetic Extensions Supplement**

Block from 1D80 to 1DBF



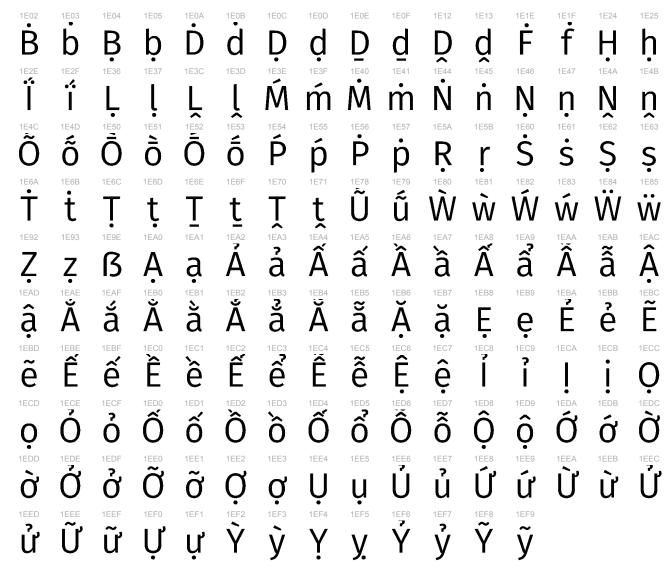
# Combining Diacritical Marks Supplement

Block from 1DCO to 1DFF



### Latin Extended Additional

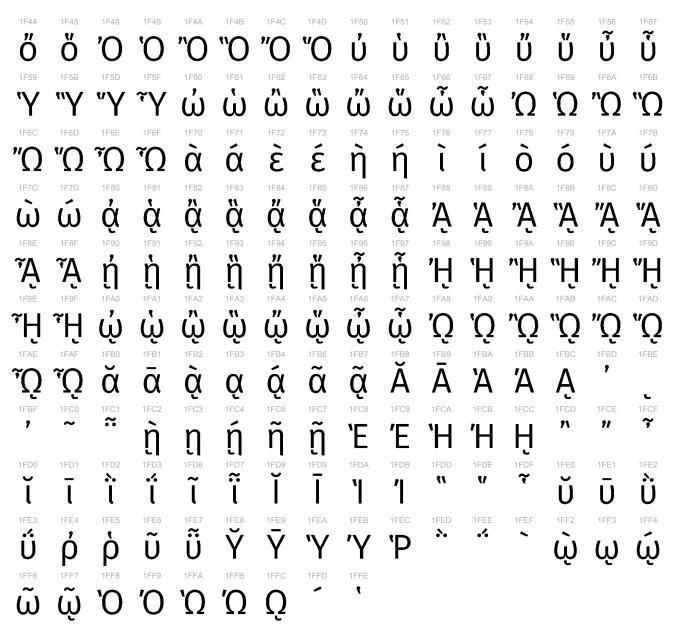
Block from 1E00 to 1EFF



### **Greek Extended**

Block from 1F00 to 1FFF

1F00	1F01	1F02	1F03	1F04	1F05	1F06	1F07	1F08	1F09	1F0A	1F0B	1F0C	1F0D	1F0E	1F0F
ά	ά	α̈́	ά	α̈́	ά	ά̈́	ά̈́	Ά	Ά	Ά	A"	"Α	Ά	Α̈́	Ąř
1F10	1F11	1F12	1F13	1F14	1F15	1F18	1F19	1F1A	1F1B	1F1C	1F1D	1F20	1F21	1F22	1F23
έ	ż	3	3	Ë	ž	Έ	Έ	"E	"E	"E	ĽΕ	ή	ή	η̈́	ή
1F24	1F25	1F26	1F27	1F28	1F29	1F2A	1F2B	1F2C	1F2D	1F2E	1F2F	1F30	1F31	1F32	1F33
ή	ή	ή	ή	Ή	Ή	"H	"H	"H	"H	γH	۴H	ί	ì	Ϊ	"
1F34	1F35	1F36	1F37	1F38	1F39	1F3A	1F3B	1F3C	1F3D	1F3E	1F3F	1F40	1F41	1F42	1F43
ľ	ľ	Ĩ	ĺ	'	ľ	^	"	"	٧	<b>۶</b>	۲	Ó	Ó	ő	ő



### **General Punctuation**

#### Block from 2000 to 206F

					7	/		>	<	<b>‰</b>	•••	•	#	†	"	"	
					204A	044	203F	203A	2039	2030	2026	2022	2021	2020	201E	201D	
,	,	,		4		_		_	_			*					
1A	201A	2019	3	2018	2016	015	2014	2013	2012	200F	200E	200D	200C	200B	2008	2007	

### Superscripts and Subscripts

Block from 2070 to 209F

2070	2074	2075	2076 <b>C</b>	2077	2078	2079	207A	207B	207C	207D	207E	207F	2080	2081	2082
2083	<b>4</b>	<b>5</b>	2086	2087	2088	2089	208A	208B	208C	208D	208E	•••	0	1	2
3	4	5							=						

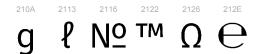
### **Currency Symbols**

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

2326 2327 2328 232B 23CE

# Geometric Shapes

Block from 25A0 to 25FF

25AF 25CA 🔷

# **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





Block from FB00 to FB4F



## Arabic Presentation Forms-B

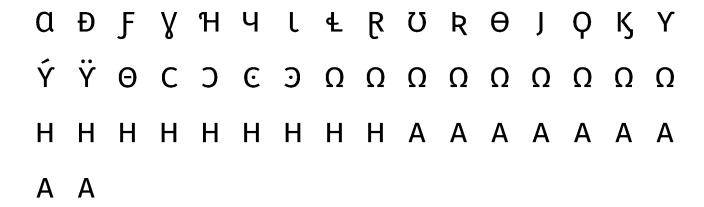
Block from FE70 to FEFF

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

ΪΫ

### Small Capitals From Capitals, Small Capitals



ï ĺ ĭìîî ï ĦĤĤ Н Н 7 ĵ ł K Ķ Ķ ĩ J IJ Į + K M M W Ń N Ň LJ Ł N Ł Ŀ L N ŏ ŏ ô Ô Ó ô Ň Ñ Ň Ŋ NJ 0 N N ő Ö Ò Q. Ö Ò Ō ÒÓ o ó Ò Õ Ŏ δ̈́Ò̈ Ő Õ Ō Ó Ô Ō Ō Ø Q Э 8 Œ Ř Ŕ Ŕ Ř ŖŔ SŚ Š Ŗ Q q R R P Þ Ţ Ŝ Ť Ş Ş Ş ß Ŧ Ţ 7 9 Τ Ĭ Ţ Ţ Т Ŭ ű ΰ Ü θŬŬ Û Ú Ü 5 T U Ű ύψψữ Û ľ Ū Ų WŴŴWW P X Y Ϋ́ Ź ž ż Ζ Ÿ 3 Y Y Z Z Z Α Б Ë È Ĺ ľ Ж Й Ń Й Д Ε 3 И B K УЎФХ C M T Ц Л Н П P Ч Ш  $\mathbf{O}$ Î ыљњѕ€э I Ц J ħ ЮЂ Я Ъ Ь **ЖЖЖŽ** O V V OY F  $\mathbf{E}$ Ψ

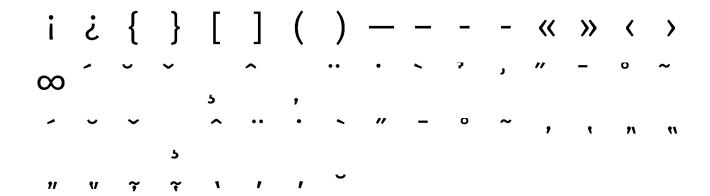
3 K K K K H I I I G G T Y Y X Y ЛЯНЯЙАЙЕЁ **ң е** К ű Э ÿ ӯ Ä ÿ ӸӺӼӾ θ Ţ 3 **Ж** Κ Έ  $\mathcal{L}$   $\mathcal{H}$   $\mathcal{G}$   $\mathcal{L}$ Л Q W я ж л н Α В Δ Z E Н Θ P P Σ T ΥФ Ψ M N 0 П X Т Иζ F 4 Ω Α E Η H λ Þ Α Α Α Α Α Α Α Α Α Ε Ε E Ε Н Η Н Н Н Н Н H Ε E Ε Н Н 0 0 0 I I 0 Υ Ω Ω Y Y Υ Ω Y  $\mathbf{O}$ Ω Ω 5 0 0 C C

JXBWΙ

Contextual Alternates, Stylistic Set 3

છ

### 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**

ĆŃÓŚŹćińóśźćńóśź

## **Numerators**

$$( ) = - +$$

## Old Style Figures, Proportional Figures

## Old Style Figures, Tabular Figures

0 1 2 3 4 5 6 7 8 9 # − ¢ 
$$x \ Dρ$$
€ ₺ ₽ ₹ £ ¥ ≈ ~ ÷ = > ≥ ∞ ∫ < ≤
¬ − × ≠ ∂ %% + ± ∏ √ Σ ◊ § ° †
‡

## Stylistic Alternates, Stylistic Set 1

# **Small Capitals**

# Stylistic Set 2

БЧчь

# **Tabular Figures**

0 1 2 3 4 5 6 7 8 9 # − ¢ 
$$x \ Dp$$

€ ₺ ₽ ₹ £ ¥ ≈ ~ ÷ = > ≥ ∞ ∫ < ≤
¬ − × ≠ 3 %% + ± ∏ √ ∑ ◊ § ° †

‡

### Slashed Zero

0 0 0 0

### **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.

g<sub>2</sub>g

#### **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

### Mac<sub>0</sub>S

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

Machame Makonde Malagasy Malay Maltese Manx Maori Masai Meru Moldavian Morisyen Nama North Ndebele Norwegian Bokmål Norwegian Nynorsk Nyanja Nyankole Occitan 0 0romo 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

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

Lithuanian

Luo

Luyia

Low German

Carrois Type Design 26

Shona

Sidamo

# Greek

Greek