

Font features of Linux Libertine G and Linux Biolinum G¹

László Németh (nemeth at OpenOffice dot org)

FSF.hu Foundation, Hungary

Set extended font names in OpenOffice.org to use Graphite font features, eg.

Linux Libertine G:smcp=1 (small caps)

Linux Libertine G:pnum=1&onum=1 (proportional old style numbers)

Ported and extended font features of Linux Libertine in Linux Libertine G

ID	Description	Test input	Result
c2sc	Capitals to Small Capital	Linux Libertine G	linux libertine G
case	Case-Sensitive Forms	(THE YEAR 2010)	(THE YEAR 2010)
dlig	Discretionary Ligatures	ck, ch, tz	ck, ch, tʒ
fina	Terminal Forms	σσσσσ	σσσσς
frac	Diagonal Fractions (value=1) Nut Fractions (value=2)	1/2, 1/3, 2/3, 1/4, 3/4, 1/99 1/2, 1/72, 1/256, 276/43	½, ⅓, ⅔, ¼, ¾, ⅑ ½, ⅓, ⅔, ¼, ¾, ⅑
hlig	Historic Ligatures	ct, st	ċt, ſt
liga ²	Standard Ligatures	fb, ff, fh, ffh, fi, ffi, fj, ffj, fk, ffk, fl, ffl, ft, fft, fh, fl, fs, fl, ft, tt, Qu, Q̄u, Th, °C, °F, ..., !!, !?, ?!, ??	fb, ff, fh, ffh, fi, ffi, fj, ffj, fk, ffk, fl, ffl, ft, fft, fh, fl, fs, fl, ft, tt, Qu, Q̄u, Th, °C, °F, ..., !!, !?, ?!, ??
locl	Localized Forms in Latin	ŝ, Š, ȝ, Ț, ș, Ț	ŝ, Š, ȝ, Ț, ș, Ț ³
nalt	Alternate Annotation Forms	(1)–(20)	①–②①
onum	Oldstyle Figures	1 234 567 890	1 234 567 890
pnum	Proportional Numbers	1 111 111 111	1 111 111 111
salt	Stylistic Alternatives	&, h, ß, θ, κ, φ, h, A	℥, h, 6, 9, κ, φ, h, A
sinf	Scientific Inferiors	1 234 567 890 abcdefghij	1 234 567 890 abcdefghij
smcp	Lowercase to Small Capitals	abcdefghijklmnopq...	ABCDEFGHIJKLMNPOQ...
ss01 ⁴	Style Set 1	Ä, Ö, Ü	Ä, Ö, Ü
ss02	Style Set 2	J, K, R	Ĵ, K, R
ss03	Style Set 3	ß, ß, ß	ss, SS, ss
ss04	Style Set 4	℥	℥
ss05	Style Set 5	W	W
sup	Superscript	1 234 567 890 abcdefghij	1 234 567 890 abcdefghij
zero	Slashed Zero	0	ø
ingl	Single Substitution	i, j	ı, j

¹Linux Libertine G (<http://www.numbertext.org/linux>) based on Linux Libertine (<http://linuxlibertine.sf.net>)

²Default feature.

³Only in Romanian texts.

⁴Default feature, except German languages.

Extra font features of Linux Libertine G

ID	Description	Test input	Result
aln ⁵	Right aligned numbers or footnote numbering signs	1 ‡ 10 § 100 **	1 ‡ 10 § 100 **
arti	Definitive article	1, 2, 3, 4, 5, ...	az 1, a 2, a 3, a 4, az 5, ... ⁶
caps	Capitalized forms (1=first letter, 2=all caps, 3=title caps, 4=title caps 2)	hundred fifty-one	Hundred fifty-one HUNDRED FIFTY-ONE Hundred Fifty-One Hundred Fifty-one
circ	Enclosed alphanumerics (1=circled, 2=parenthesized, 3=white on black, 4=double circled)	1, 2, 3, 4, 5, ...	1: ①, ②, ③, ④, ⑤, ... 2: (1), (2), (3), (4), (5), ... 3: ❶, ❷, ❸, ❹, ❺, ... 4: ①, ②, ③, ④, ⑤, ...
dash	N-dash correction	Item - item item -, item - Item	Item – item item –, item – Item
foot	Footnote numbering signs (1=*, †, ‡ ⁷ , 2=*, **, ***)	1, 2, 3, 4, 5, 6, ...	*, †, ‡, §, **, ††, ... *, **, ***, †, ††, †††
frsp ⁸	French spacing (½ em: !, ?, :, ;)	Go! Go? Go: Go;	Go! Go? Go: Go;
grkn	Numbers to Greek small letters	1, 2, 3, 4, 5, 6, 7, 8, 9, ...	α, β, γ, δ, ε, ζ, η, θ, ι, ...
minu ⁹	True minus sign	-1	–1
name ¹⁰	Number to number names (1=cardinal, 2=ordinal, 3=ordinal abbreviation)	99	1: ninety-nine 2: ninety-ninth 3: 99th
quot ¹¹	Quotation mark correction	"item"	“item”
texm	TeX-mode	a ² , a _n [*] , SO ₄ ²⁻ → ∑ _{k=1} ⁿ α _i	a ² , a _n [*] , SO ₄ ²⁻ → ∑ _{k=1} ⁿ α _i
thou ¹²	Thousand separation value=1: from 10 000 value=2: from 1000 for tables	12345 1234	12 345 1234 (thou = 1) 1 234 (thou = 2)
vari	Variant	1st one hundred and one	1 st one hundred one

⁵Add missing feature for OpenOffice.org, see [Issue 18326](#) and [Issue 33553](#).

⁶Only in Hungarian texts.

⁷In Hungarian texts foot=1 results *, **, ***, too.

⁸Default in French and Hungarian texts.

⁹Default feature.

¹⁰It's dependent from the language of the text. It supports more than 20 languages, see later.

¹¹It's dependent from the language of the text.

¹²Default feature (thou=1, thousand separation from 10 000).

Supported languages of feature name¹³

Language	Code	Id	Example (spelling out of the Id)
Afrikaans	AFK	27	sewe-en-twintig
Catalan	CAT	37	trenta-set
Czech	CSY	42	čtyřicet dva
Danish	DAN	45	femogfyrre
Dutch	NLD	31	eenendertig
English	ENG	1	one
Esperanto	EO	200	ducent ¹⁴
German	DEU	49	neunundvierzig
Greek	ELL	30	триάντα
Finnish	FIN	35	kolmekymmentäviisi
French	FRA	33	trente-trois
Hungarian	HUN	36	harminchat
Italian	ITA	39	trentanove
Luxembourgian	LBZ	201	zweehonnerteent
Polish	PLK	48	czterdzieści osiem
Portuguese	PTG	3	três
Romanian	ROM	40	patruzeci
Russian	RUS	7	семь
Serbian	SRPL	52	pedeset dva
Serbian (Cyrillic)	SRP	51	педесет један
Slovenian	SLV	50	petdeset
Spanish	ESP	34	treinta y cuatro
Swedish	SVE	46	fyrtiosex
Turkish	TRK	90	doksan

Symbols of TeX-mode

<code>\alpha</code> α	<code>\vartheta</code> θ	<code>\rho</code> ρ	<code>\psi</code> ψ
<code>\beta</code> β	<code>\iota</code> ι	<code>\varrho</code> ϱ	<code>\omega</code> ω
<code>\gamma</code> γ	<code>\kappa</code> κ	<code>\varsigma</code> ς	<code>\Gamma</code> Γ
<code>\delta</code> δ	<code>\lambda</code> λ	<code>\sigma</code> σ	<code>\Delta</code> Δ
<code>\epsilon</code> ε	<code>\mu</code> μ	<code>\tau</code> τ	<code>\Theta</code> Θ
<code>\varepsilon</code> ε	<code>\nu</code> ν	<code>\upsilon</code> υ	<code>\Lambda</code> Λ
<code>\zeta</code> ζ	<code>\xi</code> ξ	<code>\phi</code> φ	<code>\Xi</code> Ξ
<code>\eta</code> η	<code>\pi</code> π	<code>\varphi</code> ϕ	<code>\Pi</code> Π
<code>\theta</code> θ	<code>\varpi</code> ω	<code>\chi</code> χ	

¹³Multilingual solution for [OpenOffice.org Issue 92730](http://www.openoffice.org/issues/show_bug.cgi?id=92730), based on the data of <http://www.numbertext.org>.

¹⁴Only with explicit language code “Ing=200”.

<code>\Sigma</code> Σ	<code>\neq</code> \neq	<code>\uparrow</code> \uparrow	<code>\angle</code> \angle
<code>\Upsilon</code> Υ	<code>\in</code> \in	<code>\rightarrow</code> \rightarrow	<code>\perp</code> \perp
<code>\Phi</code> Φ	<code>\notin</code> \notin	<code>\to</code> \rightarrow	
<code>\Psi</code> Ψ	<code>\ni</code> \ni	<code>\downarrow</code> \downarrow	
<code>\Omega</code> Ω	<code>\not\ni</code> $\not\ni$	<code>\leftrightarrow</code> \leftrightarrow	<code>\surd</code> \surd
	<code>\subset</code> \subset	<code>\Leftarrow</code> \Leftarrow	<code>\sum</code> Σ
<code>\pm</code> \pm	<code>\supset</code> \supset	<code>\Uparrow</code> \Uparrow	<code>\int</code> \int
<code>\mp</code> \mp	<code>\not\subset</code> $\not\subset$	<code>\Rightarrow</code> \Rightarrow	<code>\iint</code> \iint
<code>\times</code> \times	<code>\not\supset</code> $\not\supset$	<code>\Downarrow</code> \Downarrow	<code>\iiint</code> \iiint
<code>\setminus</code> \setminus	<code>\sim</code> \sim	<code>\Leftrightarrow</code> \Leftrightarrow	<code>\oint</code> \oint
<code>\cap</code> \cap	<code>\nsim</code> $\not\sim$		<code>\prod</code> \prod
<code>\cup</code> \cup	<code>\approx</code> \approx	<code>\hbar</code> \hbar	<code>\prime</code> $'$
<code>\wedge</code> \wedge	<code>\mid</code> \mid	<code>\Re</code> \Re	
<code>\vee</code> \vee	<code>\nmid</code> \nmid	<code>\Im</code> \Im	<code>\mathbb{C}</code> \mathbb{C}
<code>\leq</code> \leq	<code>\ </code> $\ $	<code>\ell</code> ℓ	<code>\mathbb{H}</code> \mathbb{H}
<code>\geq</code> \geq	<code>\not<</code> $\not<$	<code>\aleph</code> \aleph	<code>\mathbb{N}</code> \mathbb{N}
<code>\leq</code> \leq	<code>\not></code> $\not>$	<code>\emptyset</code> \emptyset	<code>\mathbb{P}</code> \mathbb{P}
<code>\geq</code> \geq	<code>\parallel</code> \parallel	<code>\forall</code> \forall	<code>\mathbb{Q}</code> \mathbb{Q}
<code>\not\leq</code> $\not\leq$	<code>\not\ </code> $\not\ $	<code>\exists</code> \exists	<code>\mathbb{R}</code> \mathbb{R}
<code>\not\geq</code> $\not\geq$	<code>\nparallel</code> \nparallel	<code>\triangle</code> \triangle	<code>\mathbb{Z}</code> \mathbb{Z}
<code>\ll</code> \ll	<code>\gets</code> \leftarrow	<code>\infty</code> ∞	
<code>\gg</code> \gg	<code>\leftarrow</code> \leftarrow	<code>\partial</code> ∂	