

Computer Modern Legacy

A grade & feature sample — same design and metrics, the METAFONT blacker axis just adds ink.
This here is with “Computer Modern Legacy Serif” at default grade (19); some grades 0-72 below.

Grade 0

optical sizes: Hamburg Hamburg Hamburg

The quick brown fox jumps over the lazy dog: **bold**, *italic*, *slanted*, ***bold italic***, SMALL CAPS. Accents: Věra Dvořák, Grübe, déjà, ¡Olé! ¿señor?, cœur, naïve, façade, Ångström.

Symbols: £ \$ § ¶ © ® ™ ° † ‡ • · ± × ÷ ¬ μ || ... x² y³ 1^a 2^o; “curly” ‘quotes’, en–dash, em—dash; ligatures office waffle
affix final flag.

Sans: fox — **bold**, *oblique*. Typewriter: mono *italic* 0011I.

Grade 10

optical sizes: Hamburg Hamburg Hamburg

The quick brown fox jumps over the lazy dog: **bold**, *italic*, *slanted*, ***bold italic***, SMALL CAPS. Accents: Věra Dvořák, Grübe, déjà, ¡Olé! ¿señor?, cœur, naïve, façade, Ångström.

Symbols: £ \$ § ¶ © ® ™ ° † ‡ • · ± × ÷ ¬ μ || ... x² y³ 1^a 2^o; “curly” ‘quotes’, en–dash, em—dash; ligatures office waffle
affix final flag.

Sans: fox — **bold**, *oblique*. Typewriter: mono *italic* 0011I.

Grade 19 (default)

optical sizes: Hamburg Hamburg Hamburg

The quick brown fox jumps over the lazy dog: **bold**, *italic*, *slanted*, ***bold italic***, SMALL CAPS. Accents: Věra Dvořák, Grübe, déjà, ¡Olé! ¿señor?, cœur, naïve, façade, Ångström.

Symbols: £ \$ § ¶ © ® ™ ° † ‡ • · ± × ÷ ¬ μ || ... x² y³ 1^a 2^o; “curly” ‘quotes’, en–dash, em—dash; ligatures office waffle
affix final flag.

Sans: fox — **bold**, *oblique*. Typewriter: mono *italic* 0011I.

Grade 30

optical sizes: Hamburg Hamburg Hamburg

The quick brown fox jumps over the lazy dog: **bold**, *italic*, *slanted*, ***bold italic***, SMALL CAPS. Accents: Věra Dvořák, Grübe, déjà, ¡Olé! ¿señor?, cœur, naïve, façade, Ångström.

Symbols: £ \$ § ¶ © ® ™ ° † ‡ • · ± × ÷ ¬ μ || ... x² y³ 1^a 2^o; “curly” ‘quotes’, en–dash, em—dash; ligatures office waffle
affix final flag.

Sans: fox — **bold**, *oblique*. Typewriter: mono *italic* 0011I.

Grade 40

optical sizes: Hamburg Hamburg Hamburg

The quick brown fox jumps over the lazy dog: **bold**, *italic*, *slanted*, ***bold italic***, SMALL CAPS. Accents: Věra Dvořák, Grübe, déjà, ¡Olé! ¿señor?, cœur, naïve, façade, Ångström.

Symbols: £ \$ § ¶ © ® ™ ° † ‡ • · ± × ÷ ¬ μ || ... x² y³ 1^a 2^o; “curly” ‘quotes’, en–dash, em—dash; ligatures office waffle
affix final flag.

Sans: fox — **bold**, *oblique*. Typewriter: mono *italic* 0011I.

Grade 50

optical sizes: Hamburg Hamburg Hamburg

The quick brown fox jumps over the lazy dog: **bold**, *italic*, *slanted*, ***bold italic***, SMALL CAPS. Accents: Věra Dvořák, Grübe, déjà, ¡Olé! ¿señor?, cœur, naïve, façade, Ångström.

Symbols: £ \$ § ¶ © ® ™ ° † ‡ • · ± × ÷ ¬ μ || ... x² y³ 1^a 2^o; “curly” ‘quotes’, en–dash, em—dash; ligatures office waffle
affix final flag.

Sans: fox — **bold**, *oblique*. Typewriter: mono *italic* 0011I.

Grade 60

optical sizes: Hamburg Hamburg Hamburg

The quick brown fox jumps over the lazy dog: **bold**, *italic*, *slanted*, ***bold italic***, SMALL CAPS. Accents: Věra Dvořák, Grübe, déjà, ¡Olé! ¿señor?, cœur, naïve, façade, Ångström.

Symbols: £ \$ § ¶ © ® ™ ° † ‡ • · ± × ÷ ¬ μ || ... x² y³ 1^a 2^o; “curly” ‘quotes’, en–dash, em—dash; ligatures office waffle
affix final flag.

Sans: fox — **bold**, *oblique*. Typewriter: mono *italic* 0011I.

Grade 72

optical sizes: Hamburg Hamburg Hamburg

The quick brown fox jumps over the lazy dog: **bold**, *italic*, *slanted*, ***bold italic***, SMALL CAPS. Accents: Věra Dvořák, Grübe, déjà, ¡Olé! ¿señor?, cœur, naïve, façade, Ångström.

Symbols: £ \$ § ¶ © ® ™ ° † ‡ • · ± × ÷ ¬ μ || ... x² y³ 1^a 2^o; “curly” ‘quotes’, en–dash, em—dash; ligatures office waffle
affix final flag.

Sans: fox — **bold**, *oblique*. Typewriter: mono *italic* 0011I.

Some Details

- Glyphs and most metrics are taken from METAFONT.
- G19, for example, would be equivalent to a mode with `blackex` 1.9 at 1200 ppi, while the rasterization was actually done with 9600 ppi (and then `blackex` 15.2 for G19), pottraced to outlines.
- Accents are assembled as TeX would, some glyphs come from the CM symbol fonts and/or are assembled, e.g. $\circ$ the same way as `$^{\circ}` is done with `pdflatex/latex`, while no post-Knuth METAFONT fonts were used.
- More font details maybe later—there are at least two subtleties that cannot be baked into an OpenType font, but there are workarounds in LaTeX.
- No “Computer Modern Legacy Math” font so far; seems like a bigger project, but to be seen. . .
- Tagged/accessible PDFs are naturally supported, as with any OpenType used in LuaLaTeX.
- Maybe one day I would also publish the tool PATAFONT I used in this context.