The geist-font distribution

LaTeX support for the Geist and Geist Mono typefaces

Andre Anjos

Version 1.0 – 2026/08/24

1 Introduction

Geist is the sans-serif and monospaced typeface family designed by Vercel and released under the SIL Open Font License. The geist-font CTAN distribution makes both families available to LaTeX, in all nine weights with matching italics, through the geist and geistmono packages.

The package works with pdfLaTeX, XeLaTeX and LuaLaTeX. Under XeLaTeX and LuaLaTeX the OpenType fonts are used directly through fontspec. Under pdfLaTeX the package uses Type1 fonts and metrics generated from the OpenType originals with autoinst, because pdfTeX cannot subset CFF-flavoured OpenType. Both paths declare the same font series names, so a document renders the same way whichever engine builds it.

2 Usage

```
\usepackage{geist}      % Geist as the sans-serif family
\usepackage{geistmono}  % Geist Mono as the typewriter family
```

To use Geist as the document's main font, either pass the mainfont option or redefine \familydefault yourself:

```
\usepackage[mainfont]{geist}
```

2.1 Options

Option	Effect
mainfont	make this family the document default
scale=*n*	scale the font by a factor *n*
scale=MatchLowercase	scale to match the current font's x-height
lining, tabular, proportional	figure style (pdfLaTeX only)
bold, semibold, extrabold, black	face used for \bfseries (pdfLaTeX only)
regular, medium	face used for \mdseries (pdfLaTeX only)

The options marked pdfLaTeX only are accepted and ignored under XeLaTeX and LuaLaTeX, so the same \usepackage line works everywhere. Under those engines, select a weight directly with \fontseries instead.

3 Weights

Geist ships more weights than NFSS's series axis traditionally exposes. Each is reachable by a long name, and most also by the conventional short NFSS code:

Face	`\fontseries`	Sample
Thin	`thin` / `ul`	Hamburgefonstiv
ExtraLight	`extralight` / `el`	Hamburgefonstiv
Light	`light` / `l`	Hamburgefonstiv
Regular	`regular` / `m`	Hamburgefonstiv
Medium	`medium`	**Hamburgefonstiv**
SemiBold	`semibold` / `sb`	**Hamburgefonstiv**
Bold	`bold` / `b`	**Hamburgefonstiv**
ExtraBold	`extrabold` / `eb`	**Hamburgefonstiv**
Black	`black` / `ub`	**Hamburgefonstiv**

Medium has no short code: NFSS reserves none for that weight.

3.1 Italics

Every weight has a true italic, not a slanted approximation:

`\fontseries`	Sample
`thin`	*Hamburgefonstiv*
`light`	*Hamburgefonstiv*
`regular`	*Hamburgefonstiv*
`medium`	***Hamburgefonstiv***
`semibold`	***Hamburgefonstiv***
`bold`	***Hamburgefonstiv***
`extrabold`	***Hamburgefonstiv***
`black`	***Hamburgefonstiv***

4 Geist Mono

`geistmono` sets Geist Mono as `\ttdefault` and takes the same options and series names:

`\fontseries`	Sample
`light`	`0O1lI {}[]()#&@$`
`regular`	`0O1lI {}[]()#&@$`
`medium`	**`0O1lI {}[]()#&@$`**
`bold`	**`0O1lI {}[]()#&@$`**
`black`	**`0O1lI {}[]()#&@$`**

5 Specimen

The quick brown fox jumps over the lazy dog. **The quick brown fox jumps over the lazy dog.** *The quick brown fox jumps over the lazy dog.* 0123456789 — «crœur» ß æ ø Å ç é à ô ü ñ.

```
   The quick brown fox jumps over the lazy dog.
{ } [ ] ( ) < > / \ | & # @ $ % * + - = _ ~
```

6 Fonts included

Family	Upstream version	Faces
Geist	1.800	9 weights + italics (18)
Geist Mono	1.700	9 weights + italics (18)

Taken from the `vercel/geist-font` release v1.7.2. Geist Pixel, a set of five decorative display faces in the same release, is not packaged: it has no weight or shape axis to map onto NFSS.

7 License

The fonts, and everything derived from them — the Type1 fonts, metrics and encodings generated during packaging — are licensed under the SIL Open Font License, version 1.1; see `OFL.txt`. Geist declares no Reserved Font Name. The LaTeX support files and this documentation are licensed under the LaTeX Project Public License, version 1.3c or later.