The `geist-font` distribution

LaTeX support for the Geist, Geist Mono and Geist Serif typefaces

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1 Introduction

Geist is the sans-serif, monospaced and serif typeface family designed by Vercel and released under the SIL Open Font License. The `geist-font` CTAN distribution makes it available to LaTeX through three packages: `geist` and `geistmono`, in all nine weights with matching italics, and `geistserif`, a display serif in four variants.

The packages work with pdfLaTeX, XeLaTeX and LuaLaTeX. Under XeLaTeX and LuaLaTeX the fonts are used directly through `fontspec`. Under pdfLaTeX the packages use metrics generated with `autoinst`: Geist and Geist Mono come as Type1 fonts, because pdfTeX cannot subset CFF-flavoured OpenType, while Geist Serif's TrueType fonts are embedded as they are. 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
\usepackage{geistserif} % Geist Serif as the roman 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)
`variant=`*v*	Geist Serif variant (`geistserif` 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***

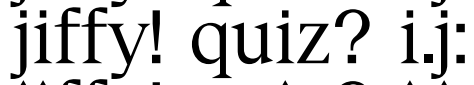
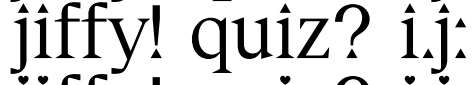
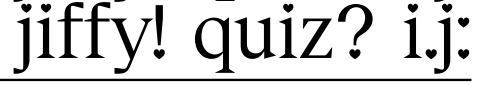
4 Geist Mono

`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 Geist Serif

`geistserif` sets Geist Serif as `\rmdefault`. It is a high-contrast display serif, best at larger sizes. It comes in four variants that differ only in the shape of their dots. `variant=` picks the one the package uses, and `\geistserifvariant{`*v*`}` switches to another locally:

v	Sample
`regular`	
`square`	
`triangle`	
`heart`	

Each variant has a single regular weight and no italic. `\textbf` and `\textit` fall back to the upright regular face, with LaTeX's usual font-substitution warning, rather than a faked bold or slant.

6 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.
{ } [ ] ( ) < > / \ | & # @ $ % * + - = _ ~
```

The quick brown fox jumps over the lazy dog. 0123456789 æ œ ß

7 Fonts included

Family	Upstream version	Faces
Geist	1.900	9 weights + italics (18)
Geist Mono	1.900	9 weights + italics (18)
Geist Serif	1.003	4 variants, regular weight only (4)

Taken from the `vercel/geist-font` release v1.9.2, which is also the version of this distribution; a change to the LaTeX support alone adds a fourth component, as in 1.9.2.1. Geist covers no lowercase Greek: since v1.8.1 it no longer maps ω to the capital Omega glyph. 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.

8 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.