

# inconsolata-nerd-font—Support package to use the InconsolataNerd Font TrueType fonts

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## Abstract

Inconsolata is a monospaced font designed by Raph Levien. It is already available via the `inconsolata` package. However, that package provides a pretty old version of the font; Additionally, the Nerd Font project extended the font by a huge amount of additional glyphs. This package provides the font itself and a convenient interface to load the font for the  $\text{\TeX}$  and  $\text{\LaTeX}$  engines.

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## 1 User Manual

The Inconsolata font is a monospaced font designed by Raph Levien. Its current version is available from the Google Fonts project.<sup>1</sup> There exists an extension of this font by the Nerd Font project,<sup>2</sup> which adds a huge amount of additional glyphs, especially useful for developers, to the original font. The extended version is available from GitHub.<sup>3</sup> This package provides the TrueType font files and a convenient way to use the font with the  $\text{\TeX}$  or  $\text{\LaTeX}$  engines.

This user guide gives a brief introduction into the possibilities provided by the `inconsolata-nerd-font` package.

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<sup>1</sup>[github.com/googlefonts/Inconsolata](https://github.com/googlefonts/Inconsolata)

<sup>2</sup>[www.nerdfonts.com/](https://www.nerdfonts.com/)

<sup>3</sup>[github.com/ryanoasis/nerd-fonts/tree/master/patched-fonts/Inconsolata](https://github.com/ryanoasis/nerd-fonts/tree/master/patched-fonts/Inconsolata)

## 1.1 License

Permission is granted to copy, distribute, and/or modify this software under the terms of the L<sup>A</sup>T<sub>E</sub>X Project Public License (LPPL), version 1.3c or later (<https://www.latex-project.org/lppl.txt>). The software has the status “maintained”.

The font files bundled with the package (InconsolataNerdFont\*.ttf) are licensed under the terms of the SIL Open Font License (LPPL), version 1.1 (<http://scripts.sil.org/OFL>).

## 1.2 Helper Macros

The following macro is not strictly part of the package. It is actually defined by recent L<sup>A</sup>T<sub>E</sub>X kernels. However, to make the package compatible with older kernels, too, we provide it, if it is not yet defined.

The macro’s purpose is to check whether the used L<sup>A</sup>T<sub>E</sub>X format is at least from the given date and allows to execute code depending on the result of the check.

---

<code>\IfFormatAtLeastTF</code>	<code>\IfFormatAtLeastTF {&lt;date&gt;} {&lt;true&gt;} {&lt;false&gt;}</code>
---------------------------------	---

---

We define this macro to execute code depending on the L<sup>A</sup>T<sub>E</sub>X format date. The macro is only defined if it is not already part of the L<sup>A</sup>T<sub>E</sub>X kernel, which it is for recent versions of the kernel.

## 1.3 Package Arguments

The inconsolata-nerd-font package provides the following load-time options.

---

<code>variant</code>	<code>variant = &lt;choice&gt;</code>
----------------------	---------------------------------------

---

Specifies which variant of the font shall be used, must be one of default, mono, or propo, where default is the default value.

The mono variant is limited to only mono-spaced characters, the default variant provides bigger icons (around 1.5 times the width of a normal character), the propo variant provides proportional symbols, which might be suitable, e.g., for presentations.

---

<code>scale</code>	<code>scale = {&lt;factor&gt;}</code>
--------------------	---------------------------------------

<code>Scale</code>	<code>Scale = {&lt;factor&gt;}</code>
--------------------	---------------------------------------

---

Set the scaling of the font. See the fontspec documentation for more details. The default value is MatchLowercase to match the height of the lower-case character of the default main font of your document.

## 1.4 Font Macros

While the package sets the default mono-spaced font to the selected variant of the Inconsolata Nerd Font, the package provides six additional macros for convenience, one pair of each variant of the font.

---

<code>\inconsolatanfffamily</code>	<code>\inconsolatanfffamily</code>
------------------------------------	------------------------------------

---

A font family for the Inconsolata Nerd Font, the default variant provided by this package.

---

<code>\inconsolatanfmonofamily</code>	<code>\inconsolatanfmonofamily</code>
---------------------------------------	---------------------------------------

---

A font family for the Inconsolata Nerd Font, the mono variant provided by this package.

---

`\inconsolatanfpropofamily` `\inconsolatanfpropofamily`

A font family for the Inconsolata Nerd Font, the propo variant provided by this package.

---

`\textinconsolatanf` `\textinconsolatanf {<text>}`

A convenience macro to typeset a short text using the default Inconsolata Nerd Font variant.

---

`\textinconsolatanfmono` `\textinconsolatanfmono {<text>}`

A convenience macro to typeset a short text using the mono Inconsolata Nerd Font variant.

---

`\textinconsolatanfpropo` `\textinconsolatanfpropo {<text>}`

A convenience macro to typeset a short text using the propo Inconsolata Nerd Font variant.

The following sentence uses the `\textinconsolatanf` to typeset the words “an example” using Inconsolata Nerd Font: Just an example sentence.

## 2 Implementation

Start the DocStrip guards.

```
1 < *package >
```

Identify the internal prefix (L<sup>A</sup>T<sub>E</sub>X3 DocStrip convention): only internal material in this *module* should be used directly.

```
2 < @@=slcd_inf >
```

Load only the essential support (expl3) “up-front”, and only if required.

```
3 \ifundefined{ExplLoaderFileDate}
4 { \RequirePackage{expl3} }
5 {}
```

Make sure that the version of l3kernel in use is sufficiently new. We use \ExplFileDate as \ifpackagelater does not work for pre-loaded expl3 in the absence of the package.

```
6 \ifl@t@r\ExplLoaderFileDate{2020-01-09}
7 {}
8 {%
9   \PackageError{inconsolata-nerd-font}{Support package expl3 too old}
10  {%
11    You need to update your installation of the bundles 'l3kernel' and
12    'l3packages'.\MessageBreak
13    Loading~inconsolata-nerd-font~will~abort!%
14  }%
15  \endinput
16  }%
```

**\IfFormatAtLeastTF** This macro is not present in older kernels, thus we use the L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub> mechanism as this is correct for this case.

```
17 \providecommand \IfFormatAtLeastTF { \ifl@t@r \fmtversion }
```

(End of definition for \IfFormatAtLeastTF. This function is documented on page 2.)

Identify the package and give the overall version information.

```
18 \ProvidesExplPackage {inconsolata-nerd-font} {2023-09-12} {0.2}
19 {Support package to use the Inconsolata Nerd Font TrueType fonts}
```

### 2.1 Options

Define the options for the package.

```
variant
scale
Scale
\l__slcd_inf_variant_tl
\l__slcd_inf_variant_tl
\l__slcd_inf_scale_tl
\l__slcd_inf_scale_tl
\keys_define:nn { inconsolatanerdfont }
{
  variant .choices:nn = { default, mono, propo } {
    \tl_set_eq:NN \l__slcd_inf_variant_tl \l_keys_choice_tl
  },
  scale .tl_set:N = \l__slcd_inf_scale_tl,
  Scale .tl_set:N = \l__slcd_inf_scale_tl,
}
```

```

32 \keys_set:nn { inconsolatanerdfont }
33 {
34     variant = default,
35     scale = MatchLowercase,
36 }
37 \tl_clear:N \l__slcd_inf_variant_tl

```

(End of definition for variant and others. These variables are documented on page 2.)

### Process the options

```

38 \IfFormatAtLeastTF { 2022-06-01 }
39 { \ProcessKeyOptions [ inconsolatanerdfont ] }
40 {
41     \RequirePackage { l3keys2e }
42     \ProcessKeysOptions { inconsolatanerdfont }
43 }

```

and set up the default variant if it was not yet chosen

```

44 \tl_if_empty:NT \l__slcd_inf_variant_tl
45 {
46     \tl_set:Nn \l__slcd_inf_variant_tl { default }
47 }

```

## 2.2 Load the Font

We require the fontspec package.

```

48 \RequirePackage{fontspec}

```

Define and set a helper variable for the respective font name suffix

```

49 \tl_new:N \l__slcd_inf_font_name_tl
50 \tl_set:Nn \l__slcd_inf_font_name_tl {InconsolataNerdFont}
51 \tl_if_eq:NnTF \l__slcd_inf_variant_tl { mono }
52 { \tl_put_right:Nn \l__slcd_inf_font_name_tl {Mono} }
53 {
54     \tl_if_eq:NnTF \l__slcd_inf_variant_tl { propo }
55     { \tl_put_right:Nn \l__slcd_inf_font_name_tl {Propo} }
56 }

```

Define a font family for the three fonts and commands for easier usage

```

\inconsolatanfffamily
\inconsolatanfmonofamily
\inconsolatanfpropofamily
\textinconsolatanf
\textinconsolatanfmono
\textinconsolatanfpropo
57 \newfontfamily\inconsolatanfffamily{InconsolataNerdFont-Regular.ttf}[
58     BoldFont    = InconsolataNerdFont-Bold.ttf,
59     FakeStretch = {0.9},
60     NFSSFFfamily = inconsolatanf,
61     Scale       = \l__slcd_inf_scale_tl,
62 ]
63 \newfontfamily\inconsolatanfmonofamily{InconsolataNerdFontMono-Regular.ttf}[
64     BoldFont    = InconsolataNerdFontMono-Bold.ttf,
65     FakeStretch = {0.9},
66     NFSSFfamily = inconsolatanfmono,
67     Scale       = \l__slcd_inf_scale_tl,
68 ]
69 \newfontfamily\inconsolatanfpropofamily{InconsolataNerdFontPropo-Regular.ttf}[
70     BoldFont    = InconsolataNerdFontPropo-Bold.ttf,
71     FakeStretch = {0.9},

```

```

72 NFSSFamily = inconsolatanfpropo,
73 Scale      = \l__slcd_inf_scale_tl,
74 ]
75
76 \DeclareTextFontCommand{\textinconsolatanf}{\inconsolatanffamily}
77 \DeclareTextFontCommand{\textinconsolatanfmono}{\inconsolatanffamilymono}
78 \DeclareTextFontCommand{\textinconsolatanfpropo}{\inconsolatanffamilypropo}

```

(End of definition for `\inconsolatanffamily` and others. These functions are documented on page 2.)

Now we can actually load the font

```

79 \setmonofont{\l__slcd_inf_font_name_tl}[
80 BoldFont    = *-Bold,
81 Extension   = .ttf,
82 FakeStretch = {0.9},
83 Scale       = \l__slcd_inf_scale_tl,
84 UprightFont = *-Regular,
85 ]
86 \</package>

```

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