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 a convenient interface to load the font for the X$_{\exists}$TEX and LuaTEX engines.

Contents

1 User Manual

The Inconsolata font is a monospaced font designed by Raph Levien. Its current version is available from the Google Fonts project.[1] There exists an extension of this font by the Nerd Font project,[2] which adds a huge amount of additional glyphs, especially useful for developers, to the original font. The extended version is available from GitHub.[3] This package provides a convenient way to use the font with the X$_{\exists}$TEX or LuaTEX engines.

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

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[1]github.com/googlefonts/Inconsolata
[2]www.nerdfonts.com/
[3]github.com/ryanoasis/nerd-fonts/tree/master/patched-fonts/Inconsolata

1.1 Helper Macros

The following macro is not strictly part of the package. It is actually defined by recent LaTeX 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 LaTeX format is at least from the given date and allows to execute code depending on the result of the check.

`\IfFormatAtLeastTF` `\IfFormatAtLeastTF {⟨date⟩} {⟨true⟩} {⟨false⟩}`

We define this macro to execute code depending on the LaTeX format date. It is only defined if it is not already part of the LaTeX kernel, which it is for recent versions of the kernel.

1.2 Package Arguments

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

`variant` `variant = ⟨choice⟩`

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.

`scale` `scale = {⟨factor⟩}`
`Scale` `Scale = {⟨factor⟩}`

Set the scaling of the font. See the fontspec documentation for more details.

1.3 Font Macros

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

`\inconsolatanffamily` `\inconsolatanffamily`

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

`\textinconsolatanf` `\textinconsolatanf {⟨text⟩}`

A convenience macro to typeset a short text using the default 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 (LaTeX3 DocStrip convention): only internal matrial 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 LaTeX2_ε 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} {2023-09-09} {0.1}
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_scale_tl

```
20 \tl_new:N \l__slcd_inf_variant_tl
21
22 \keys_define:nn { inconsolatanerdfont }
23   {
24     variant .choices:nn = { default, mono, propo } {
25       \tl_set_eq:NN \l__slcd_inf_variant_tl \l_keys_choice_tl
26     },
27
28     scale .tl_set:N = \l__slcd_inf_scale_tl,
29     Scale .tl_set:N = \l__slcd_inf_scale_tl,
30   }
31
```

```
32 \keys_set:nn { inconsolatanerdfont }
33   {
34     variant = default,
35     scale = 0.9,
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:NnT \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 font and a command for esiere usage

\inconsolatanffamily
\textinconsolatanf
```
57 \newfontfamily\inconsolatanffamily{InconsolataNerdFont-Regular.ttf}[
58   BoldFont    = InconsolataNerdFont-Bold.ttf,
59   FakeStretch = {0.9},
60   NFSSFamily  = inconsolatanf,
61   Scale       = \l__slcd_inf_scale_tl,
62 ]
63 \DeclareTextFontCommand{\textinconsolatanf}{\inconsolatanffamily}
```

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

Now we can actually load the font

```
64 \setmonofont{\l__slcd_inf_font_name_tl}[
65   BoldFont    = *-Bold,
66   Extension   = .ttf,
67   FakeStretch = {0.9},
68   Scale       = \l__slcd_inf_scale_tl,
```

```
69    UprightFont = *-Regular,
70  ]

71  ⟨/package⟩
```

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The italic numbers denote the pages where the corresponding entry is described, numbers underlined point to the definition, all others indicate the places where it is used.