

Package ‘rstudiothemes’

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Title Create 'RStudio' Themes from Visual Studio Code, Positron and 'TextMate' Themes

Version 1.1.0

Description Create and install 'RStudio' themes derived from Visual Studio Code, Positron and 'TextMate' themes. Provides functions to convert between 'TextMate' and Visual Studio Code or Positron themes, as well as ports of several Visual Studio Code themes.

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URL <https://dieghernan.github.io/rstudiothemes/>,
<https://github.com/dieghernan/rstudiothemes>

BugReports <https://github.com/dieghernan/rstudiothemes/issues>

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convert_tm_to_vs_theme

Convert a TextMate theme into a Visual Studio Code/Positron theme

Description

Convert a .tmTheme file representing a TextMate theme and write the equivalent Visual Studio Code theme (.json).

convert_tm_to_positron_theme() is an alias of convert_tm_to_vs_theme().

Usage

```
convert_tm_to_vs_theme(
  path,
  outfile = tempfile(fileext = ".json"),
  name = NULL,
  author = NULL
)
```

```
convert_tm_to_positron_theme(
  path,
  outfile = tempfile(fileext = ".json"),
  name = NULL,
  author = NULL
)
```

Arguments

path	Path or URL to a TextMate theme, in .tmTheme format.
outfile	Path where the resulting file will be written. By default a temporary file (<code>tempfile()</code>).
name	Optional. The name of the theme. If not provided, the name of the theme in path will be used.
author	Optional. The author of the theme. If not provided, the author from path will be used, or a default value will be assigned.

Value

This function is called for its side effects. It writes a new .json file in outfile and returns the path.

See Also

Other functions for creating themes: [convert_to_rstudio_theme\(\)](#), [convert_vs_to_tm_theme\(\)](#)

Examples

```
tmtheme <- system.file("ext/test.tmTheme",
  package = "rstudiothemes"
)
path <- convert_tm_to_vs_theme(tmtheme)

readLines(path) |>
  head(50) |>
  cat(sep = "\n")
```

convert_to_rstudio_theme

Convert a TextMate or VS Code/Positron theme to an RStudio theme

Description

Convert a .tmTheme or .json file that defines a TextMate or Visual Studio Code theme and write the equivalent RStudio theme .rstheme.

Optionally, the generated theme can be installed and applied to the RStudio IDE.

Important: This function only works in RStudio. It returns NULL when called from other IDEs.

Usage

```
convert_to_rstudio_theme(
  path,
  outfile = tempfile(fileext = ".rstheme"),
  name = NULL,
  use_italics = TRUE,
  output_style = "expanded",
  force = FALSE,
  apply = FALSE
)
```

Arguments

path	Path or URL to a TextMate theme (.tmTheme format) or a Visual Studio Code theme (.json format).
outfile	Path where the resulting file will be written. By default a temporary file (<code>tempfile()</code>).
name	Optional. The name of the theme. If not provided, the name of the theme in path will be used.
use_italics	Logical. Whether to use italics in the resulting theme. By default TRUE. However, some themes may look better without italics.
output_style	Bracketing and formatting style of the CSS output. Possible styles: "nested", "expanded", "compact", and "compressed".
force	Whether to force the operation and overwrite an existing file with the same name. Default: FALSE.
apply	Logical. Apply the theme with <code>rstudioapi::applyTheme()</code> .

Details

RStudio supports custom editor themes in two formats: .tmTheme and .rstheme. The .tmTheme format originated with TextMate and has become a common theme format. **This tmTheme editor** hosts a large collection of .tmTheme files. The .rstheme format is specific to RStudio.

To switch editor themes, go to Tools > Global Options > Appearance > Add and use the Editor theme selector.

For more information, see <https://docs.posit.co/ide/user/ide/guide/ui/appearance.html>.

Value

This function is called for its side effects. It writes a new .rstheme file to outfile and returns the path. If force or apply are TRUE, it will install and apply the theme to your RStudio IDE.

See Also

`rstudioapi::addTheme()`, `rstudioapi::applyTheme()`

Other functions for creating themes: `convert_tm_to_vs_theme()`, `convert_vs_to_tm_theme()`

Examples

```

if (on_rstudio() && interactive()) {
  vstheme <- system.file("ext/skeleton-syntax-color-theme.json",
    package = "rstudiothemes"
  )

  # Apply the theme for 10 seconds to demonstrate the effect

  current_theme <- rstudioapi::getThemeInfo()$editor

  # Current theme name:
  current_theme
  new_rs_theme <- convert_to_rstudio_theme(vstheme,
    name = "A testing theme",
    apply = TRUE, force = TRUE
  )

  Sys.sleep(10)

  rstudioapi::applyTheme(current_theme)
  rstudioapi::removeTheme("A testing theme")
}

```

 convert_vs_to_tm_theme

Convert a Visual Studio Code/Positron theme into a TextMate theme

Description

Convert a .json file representing a Visual Studio Code/Positron theme and write the equivalent TextMate theme (.tmTheme).

convert_positron_to_tm_theme() is an alias of convert_vs_to_tm_theme().

Usage

```

convert_vs_to_tm_theme(
  path,
  outfile = tempfile(fileext = ".tmTheme"),
  name = NULL,
  author = NULL
)

convert_positron_to_tm_theme(
  path,
  outfile = tempfile(fileext = ".tmTheme"),
  name = NULL,
  author = NULL
)

```

Arguments

path	Path or URL to a Visual Studio Code/Positron theme, in .json format.
outfile	Path where the resulting file will be written. By default a temporary file (<code>tempfile()</code>).
name	Optional. The name of the theme. If not provided, the name of the theme in path will be used.
author	Optional. The author of the theme. If not provided, the author from path will be used, or a default value will be assigned.

Value

This function is called for its side effects: it writes a .tmTheme file to `outfile` and returns the path.

See Also

Other functions for creating themes: `convert_tm_to_vs_theme()`, `convert_to_rstudio_theme()`

Examples

```
vstheme <- system.file("ext/test-simple-color-theme.json",
  package = "rstudiothemes"
)
path <- convert_vs_to_tm_theme(vstheme)

readLines(path) |>
  head(50) |>
  cat(sep = "\n")
```

generate_uuid

Generate random UUIDs

Description

Generate version 4 (pseudo-random) Universally Unique Identifiers (UUIDs).

Usage

```
generate_uuid(hint = NULL)
```

Arguments

hint	Optional. A character string (or object coercible with <code>as.character()</code>) to be used as a random seed.
------	---

Details

This helper function assigns a **UUID** for identifying versions of generated themes.

Value

A character string representing a valid UUID that can be validated with `uuid::UUIDvalidate()`.

Source

Heavily based on an unreleased version of `ids::uuid()`.

References

Davis KR, Peabody B, Leach P (2024). "Universally Unique IDentifiers (UUIDs)." RFC 9562. doi:10.17487/RFC9562, <https://www.rfc-editor.org/info/rfc9562>.

See Also

Other helpers: `on_rstudio()`

Examples

```
# Random
generate_uuid()

generate_uuid()

# Persistent with hint param

hint <- "something as seed"

generate_uuid(hint)

generate_uuid(hint)
```

`on_rstudio`*Check whether the session is running in RStudio*

Description

Detect whether the current R session is running in RStudio, used to decide if themes can be applied to the IDE.

Usage

```
on_rstudio()
```

Value

Logical, TRUE if running in RStudio, otherwise FALSE.

See Also

Other helpers: [generate_uuid\(\)](#)

Examples

```
on_rstudio()
```

read_tm_theme	<i>Read and parse a TextMate theme</i>
---------------	--

Description

Read a .tmTheme file (XML format) representing a TextMate or Sublime Text theme.

Usage

```
read_tm_theme(path)
```

Arguments

path Path or URL to a TextMate theme, in .tmTheme format.

Value

A [tibble](#) with the data of the theme.

See Also

Other functions for reading themes: [read_vs_theme\(\)](#)

Examples

```
the_theme <- system.file("ext/test-color-theme.json",
  package = "rstudiothemes"
) |>
  # Convert the Visual Studio Code theme to TextMate format
  convert_vs_to_tm_theme()

# Check
readLines(the_theme) |>
  head(10) |>
  cat(sep = "\n")

read_tm_theme(the_theme)
```

read_vs_theme	<i>Read and parse a Visual Studio Code/Positron theme</i>
---------------	---

Description

Read a .json file representing a Visual Studio Code/Positron theme.

read_positron_theme() is an alias of read_vs_theme().

Usage

```
read_vs_theme(path)
```

```
read_positron_theme(path)
```

Arguments

path Path or URL to a Visual Studio Code/Positron theme, in .json format.

Value

A [tibble](#) with the data of the theme.

See Also

Other functions for reading themes: [read_tm_theme\(\)](#)

Examples

```
vstheme <- system.file("ext/test-color-theme.json",  
  package = "rstudiothemes"  
)  
read_vs_theme(vstheme)
```

rstudiothemes-actions	<i>Install, list, try or remove RStudio themes</i>
-----------------------	--

Description

Adaptation of some **rsthemes** functions. [MIT License](#) Copyright © rsthemes authors.

Important: These functions (except `list_rstudiothemes(list_installed = FALSE)`) only work in RStudio, returning NULL when called from other IDEs.

Usage

```
install_rstudiothemes(
  style = c("all", "dark", "light"),
  themes = NULL,
  destdir = NULL
)

remove_rstudiothemes(style = c("all", "dark", "light"))

list_rstudiothemes(style = c("all", "dark", "light"), list_installed = TRUE)

try_rstudiothemes(style = c("all", "dark", "light"), themes = NULL, delay = 0)
```

Arguments

style	Character. Limit themes to a specific group: all, dark, or light.
themes	Optional character vector of theme names. If provided, only these themes will be used, and style will be ignored.
destdir	Optional directory for .rstheme files. By default uses <code>rstudioapi::addTheme()</code> , but this argument allows installation to non-standard directories.
list_installed	Should the installed rstudiothemes themes be listed (default). If FALSE, the available themes in the rstudiothemes package are listed instead.
delay	Number of seconds to wait between themes. Set to 0 to be prompted to continue after each theme.

Value

- `install_rstudiothemes()` and `remove_rstudiothemes()` return NULL invisibly.
- `list_rstudiothemes()` returns a character vector of theme names.
- `try_rstudiothemes()` has side effects of starting a widget that allows users to try different themes. The widget can be exited by following the prompts, which will restore the original theme.

Functions

- `install_rstudiothemes()`: Install RStudio themes
- `remove_rstudiothemes()`: Remove **rstudiothemes** from RStudio
- `list_rstudiothemes()`: List installed or available themes
- `try_rstudiothemes()`: Try each **rstudiothemes** RStudio theme

Ported Themes

rstudiothemes includes RStudio themes based on the following Visual Studio Code themes:

- Ayu by teabyii.

- Andromeda by Eliver Lara.
- Catppuccin by <https://catppuccin.com/>.
- Cobalt2 Theme Official by Wes Bos.
- CRAN by dieghernan, based on the CRAN (R Project) website theme, created with Pandoc
- Dracula Official by <https://draculatheme.com/>.
- GitHub Dark and Light by GitHub.
- JellyFish Theme by Pawel Borkar.
- Matcha by Luca Falasco.
- Matrix Theme by UstymUkman.
- Night Owl Dark and Light (no italics) by Sarah Drasner.
- Nord by Arctic Ice Studio.
- OKSolar Theme by dieghernan.
- One Dark Pro by binaryify.
- Overflow Theme by dieghernan.
- Panda Theme by Panda Theme.
- Selenized Themes by dieghernan.
- Skeletor Syntax by dieghernan.
- SynthWave '84 by Robb Owen.
- Tokyo Night by Enkia.
- Winter is Coming Theme by John Papa.

Author(s)

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References

Aden-Buie G (2026). *rsthemes: Full Themes for RStudio v1.2+*. R package version 0.5.1, commit 48fc078f772e5e63669bc9773eabc8e9cdc7f699, <https://github.com/gadenbuie/rsthemes>.

Examples

```
list_rstudiothemes(list_installed = FALSE)
```

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