

Package: rsthemes (via r-universe)

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Title Full Themes for RStudio v1.2+

Version 0.4.0

Description A collection of full RStudio themes built using SCSS theme templates. Includes several hand crafted themes in addition to a large collection of base16 themes.

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URL <https://github.com/gadenbuie/rsthemes>

BugReports <https://github.com/gadenbuie/rsthemes/issues>

Imports cli, fs (>= 1.3.0), hms, purrr, rstudioapi (>= 0.9.0), sass (>= 0.2.0.9002), utils

Suggests ipapi (>= 0.1), suncalc, whisker

Remotes hrbrmstr/ipapi, rstudio/sass

Encoding UTF-8

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Repository <https://gadenbuie.r-universe.dev>

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`auto_theme`*Automatically or manually toggle light, dark, or favorite themes*

Description

These functions help manage switching between preferred themes. Use `set_theme_light()` and `set_theme_dark()` to declare your preferred light/dark themes that can be toggled or selected automatically with `use_theme_toggle()` or `use_theme_auto()` or their corresponding RStudio addins. Alternatively, you can create a list of favorite themes with `set_theme_favorite()`. You can then cycle through this list with `use_theme_favorite()` or by using the RStudio addin.

Usage

```
set_theme_light(theme = NULL)

set_theme_dark(theme = NULL)

set_theme_favorite(theme = NULL, append = TRUE)

use_theme_light(quietly = FALSE)

use_theme_dark(quietly = FALSE)

use_theme_rstudio_default(quietly = FALSE)

use_theme_toggle(quietly = FALSE)

use_theme_auto(
  dark_start = NULL,
  dark_end = NULL,
  lat = NULL,
  lon = NULL,
  quietly = FALSE
)

use_theme_favorite(quietly = FALSE)
```

Arguments

<code>theme</code>	The name of the theme, or NULL to use current theme.
<code>append</code>	[<code>set_theme_favorite</code>] Should the theme be appended to the list of favorite themes? If FALSE, then theme replaces the current list of favorite themes.
<code>quietly</code>	Suppress confirmation messages
<code>dark_start</code>	Start time of dark mode, in 24-hour "HH:MM" format.
<code>dark_end</code>	End time of dark mode, in 24-hour "HH:MM" format.
<code>lat</code>	Latitude of your current location.
<code>lon</code>	Longitude of your current location.

Details

For best results, set your preferred themes in your `~/.Rprofile` using the instructions in the section below.

Functions

- `set_theme_light`: Set default light theme
- `set_theme_dark`: Set default dark theme
- `set_theme_favorite`: Set favorite themes
- `use_theme_light`: Use default light theme
- `use_theme_dark`: Use default dark theme
- `use_theme_rstudio_default`: Use the RStudio default theme (Textmate)
- `use_theme_toggle`: Toggle between dark and light themes
- `use_theme_auto`: Auto switch between dark and light themes
- `use_theme_favorite`: Walk through a list of favorite themes

Set preferred theme in `.Rprofile`

Add the following to your `~/.Rprofile` (see `usethis::edit_r_profile()`) to declare your default themes:

```
if (interactive() && requireNamespace("rsthemes", quietly = TRUE)) {
  # Set preferred themes if not handled elsewhere..
  rsthemes::set_theme_light("One Light {rsthemes}") # light theme
  rsthemes::set_theme_dark("One Dark {rsthemes}") # dark theme
  rsthemes::set_theme_favorite(c(
    "GitHub {rsthemes}", "Solarized Dark {rsthemes}", "Fairyfloss {rsthemes}"
  ))
}

# Whenever the R session restarts inside RStudio...
setHook("rstudio.sessionInit", function(isNewSession) {
  # Automatically choose the correct theme based on time of day
  rsthemes::use_theme_auto(dark_start = "18:00", dark_end = "6:00")

  # Alternatively use a dynamic solution based on your location
  # rsthemes::use_theme_auto(lat = 50.30, lon = 9.40)

  # Or alternatively use {ipapi} to determine your location automatically
  # rsthemes::use_theme_auto()
}, action = "append")
}
```

Note that the fully automated approach will use ip-api.com to look up your current location using your IP address (if the `ipapi` package is available). If you'd like to use geolocation but without ping-
ing an external server, you can call `rsthemes::geolocate()` once to determine your approximate

latitude and longitude, which you can provide to `use_theme_auto()`. Your location coordinates are cached on a per-project basis and only checked once per day (per project).

Here are two other approaches that you can use. Both set the global options that declare the default themes, but rely on you manually calling `use_theme_auto()` or the Auto Dark/Light addin.

```
# ~/.Rprofile
rsthemes::set_theme_light("One Light {rsthemes}")
rsthemes::set_theme_dark("One Dark {rsthemes}")
rsthemes::set_theme_favorite(c(
  "GitHub {rsthemes}", "Solarized Dark {rsthemes}", "Fairyfloss {rsthemes}"
))

# ~/.Rprofile
options(
  rsthemes.theme_light = "One Light {rsthemes}",
  rsthemes.theme_dark = "One Dark {rsthemes}"
  rsthemes.theme_favorite = c("GitHub {rsthemes}", "One Light {rsthemes}")
)
```

RStudio Addins

rsthemes includes five RStudio addins to help you easily switch between light and dark modes. You can set the default dark or light theme to the current theme. You can also toggle between light and dark mode or switch to the automatically chosen light/dark theme based on time of day. You can set a keyboard shortcut to **Toggle Dark Mode**, **Next Favorite Theme**, or **Auto Choose Dark or Light Theme** from the *Modify Keyboard Shortcuts...* window under the RStudio *Tools* menu.

rsthemes also includes **Use Default RStudio Theme**, powered by `use_theme_rstudio_default()`. This addin and function reverts RStudio back to the default theme, Textmate. This can be useful when teaching or demonstrating RStudio feature when you want RStudio to look like new.

 rstheme

Create a New Theme

Description

Writes the template files required to create a new RStudio theme. In general, arguments with the prefix `theme_` refer to global settings for the built theme. Arguments with `ui_rstudio_` refer to RStudio chrome such as tabs, scroll bars, search boxes, and tool bars. Arguments starting with `ui_` refer to UI elements inside the coding area, such as the cursor, selection highlighting, etc. Arguments starting with `code_` refer to code syntax colors and those starting with `rmd_` are specific to R Markdown syntax. The arguments naming conventions may not be perfectly consistent (sorry!).

Usage

```
rstheme(  
  theme_name,  
  ui_background,  
  ui_foreground,  
  code_string,  
  code_function,  
  code_value,  
  code_variable,  
  code_message,  
  ...,  
  theme_path = NULL,  
  theme_dark = FALSE,  
  theme_flat = FALSE,  
  theme_palette = NULL,  
  theme_as_sass = FALSE,  
  theme_apply = TRUE,  
  ui_rstudio_background = "darken($ui_background, 2%)",  
  ui_rstudio_foreground = "$ui_foreground",  
  ui_rstudio_border = "$ui_background",  
  rmd_chunk_background = "darken($ui_background, 5%)",  
  ui_rstudio_tabs_inactive_background = "lighten($ui_rstudio_background, 2%)",  
  ui_rstudio_tabs_inactive_foreground = "transparentize($ui_foreground, 0.4)",  
  ui_rstudio_tabs_inactive_hover_background = "$ui_rstudio_tabs_inactive_background",  
  ui_rstudio_tabs_active_background = "$rmd_chunk_background",  
  ui_rstudio_tabs_active_foreground = "$ui_foreground",  
  ui_rstudio_toolbar_background = "$ui_rstudio_tabs_active_background",  
  ui_rstudio_toolbar_foreground = "$ui_foreground",  
  ui_rstudio_search = "$ui_rstudio_toolbar_background",  
  ui_rstudio_scrollbar_background = "transparentize($ui_background, 0.5)",  
  ui_rstudio_scrollbar_handle = "$rmd_chunk_background",  
  ui_cursor = "#FF0000",  
  ui_cursor_normal_mode = "$ui_cursor",  
  ui_gutter_foreground = "transparentize($ui_foreground, 0.75)",  
  ui_gutter_background = "$ui_background",  
  ui_line_active = "transparentize($rmd_chunk_background, 0.6)",  
  ui_selection = "transparentize($rmd_chunk_background, 0.6)",  
  ui_line_active_selection = "opacity($ui_selection, 1)",  
  ui_line_active_gutter = "$ui_background",  
  ui_bracket = "transparentize($ui_cursor, 0.6)",  
  ui_invisible = "transparentize($ui_foreground, 0.7)",  
  ui_indent_guide = "$ui_invisible",  
  ui_margin_line = "lighten($ui_selection, 5%)",  
  ui_debug_background = "lighten($ui_background, 10%)",  
  ui_fold_arrows_foreground = "$ui_cursor",  
  ui_fold_arrows_background = "transparentize($ui_fold_arrows_foreground, 0.5)",  
  ui_line_find = "$ui_selection",  
  ui_console_selection = "$ui_selection",
```

```

ui_completions_background = "$ui_background",
ui_completions_foreground = "$ui_foreground",
ui_completions_border = "$ui_bracket",
ui_completions_selected_background = "$ui_line_active_selection",
ui_completions_selected_foreground = "$ui_foreground",
ui_rstudio_job_progress_bar = "opacity($ui_selection, 1)",
code_comment = "transparentize($ui_foreground, 0.5)",
code_namespace_font_style = "italic",
code_reserved = "$code_string",
code_operator = "$code_value",
code_bracket = "$code_function",
code_namespace = "$code_variable",
code_identifier = "$ui_foreground",
code_string_background = "inherit",
code_function_background = "inherit",
code_value_background = "inherit",
code_variable_background = "inherit",
code_message_background = "inherit",
code_comment_background = "inherit",
code_reserved_background = "inherit",
code_operator_background = "inherit",
code_bracket_background = "inherit",
code_namespace_background = "inherit",
code_identifier_background = "inherit",
code_other = "$code_string",
rmd_heading_weight = "600",
rmd_heading_foreground = "$code_string",
rmd_heading_background = "$code_string_background",
rmd_chunk_header = "$code_function",
rmd_chunk_header_background = "$code_function_background",
rmd_href = "$code_reserved",
rmd_href_background = "$code_reserved_background"
)

```

Arguments

<code>theme_name</code>	Name of the theme
<code>ui_background</code>	General background color in RStudio panes, e.g. Source pane.
<code>ui_foreground</code>	General foreground (text) color in RStudio panes
<code>code_string</code> , <code>code_function</code> , <code>code_value</code> , <code>code_variable</code> , <code>code_message</code>	Color of code tokens in R code.
...	Raw SCSS text strings or rstheme partial themes: <ul style="list-style-type: none"> • rstheme_command_palette() • rstheme_rainbow_parentheses() • rstheme_large_tabs() • rstheme_dialog_options() • rstheme_terminal_colors()

theme_path	Path for output theme
theme_dark	TRUE if the theme is a darke theme, FALSE otherwise (default)
theme_flat	Use additional classes to make the theme a "flat" theme. Default is FALSE.
theme_palette	A list of named colors for use in the theme palette. Color names should not include the \$ prefix, e.g. red, but can be referenced in any other color-setting variable in rstheme() as \$<color>, e.g. \$red.
theme_as_sass	If TRUE, the theme is returned as an SCSS file. Otherwise, the compiled .rstheme file is returned (default)
theme_apply	If TRUE (default), the theme will be installed and applied immediately.
ui_rstudio_background	Default: darken(\$ui_background, 2%)
ui_rstudio_foreground	Default: \$ui_foreground
ui_rstudio_border	Default: \$ui_background
rmd_chunk_background	Default: darken(\$ui_background, 5%)
ui_rstudio_tabs_inactive_background	Default: lighten(\$ui_rstudio_background, 2%)
ui_rstudio_tabs_inactive_foreground	Default: transparentize(\$ui_foreground, 0.4)
ui_rstudio_tabs_inactive_hover_background	Default: \$ui_rstudio_tabs_inactive_background
ui_rstudio_tabs_active_background	Default: \$rmd_chunk_background
ui_rstudio_tabs_active_foreground	Default: \$ui_foreground
ui_rstudio_toolbar_background	Default: \$ui_rstudio_tabs_active_background
ui_rstudio_toolbar_foreground	Default: \$ui_foreground
ui_rstudio_search	Default: \$ui_rstudio_toolbar_background
ui_rstudio_scrollbar_background	Default: transparentize(\$ui_background, 0.5)
ui_rstudio_scrollbar_handle	Default: \$rmd_chunk_background
ui_cursor	Default: #FF0000
ui_cursor_normal_mode	Default: \$ui_cursor
ui_gutter_foreground	Default: transparentize(\$ui_foreground, 0.75)
ui_gutter_background	Default: \$ui_background

```
ui_line_active Default: transparentize($rmd_chunk_background, 0.6)
ui_selection   Default: transparentize($rmd_chunk_background, 0.6)
ui_line_active_selection
                    Default: opacify($ui_selection, 1)
ui_line_active_gutter
                    Default: $ui_background
ui_bracket     Highlight on paired bracket Default: transparentize($ui_cursor, 0.6)
ui_invisible   Default: transparentize($ui_foreground, 0.7)
ui_indent_guide
                    Default: $ui_invisible
ui_margin_line Default: lighten($ui_selection, 5%)
ui_debug_background
                    Default: lighten($ui_background, 10%)
ui_fold_arrows_foreground
                    Default: $ui_cursor
ui_fold_arrows_background
                    Default: transparentize($ui_fold_arrows_foreground, 0.5)
ui_line_find   Default: $ui_selection
ui_console_selection
                    Default: $ui_selection
ui_completions_background
                    Default: $ui_background
ui_completions_foreground
                    Default: $ui_foreground
ui_completions_border
                    Default: $ui_bracket
ui_completions_selected_background
                    Default: $ui_line_active_selection
ui_completions_selected_foreground
                    Default: $ui_foreground
ui_rstudio_job_progress_bar
                    Default: opacify($ui_selection, 1)
code_comment   Default: transparentize($ui_foreground, 0.5)
code_namespace_font_style
                    Default: italic
code_reserved  Default: $code_string
code_operator  Default: $code_value
code_bracket   Default: $code_function
code_namespace Default: $code_variable
code_identifier
                    Default: $ui_foreground
code_string_background
                    Default: inherit
```



```
code_function_background
    Default: inherit
code_value_background
    Default: inherit
code_variable_background
    Default: inherit
code_message_background
    Default: inherit
code_comment_background
    Default: inherit
code_reserved_background
    Default: inherit
code_operator_background
    Default: inherit
code_bracket_background
    Default: inherit
code_namespace_background
    Default: inherit
code_identifier_background
    Default: inherit

code_other      Default: $code_string
rmd_heading_weight
    Default: 600
rmd_heading_foreground
    Default: $code_string
rmd_heading_background
    Default: $code_string_background
rmd_chunk_header
    Default: $code_function
rmd_chunk_header_background
    Default: $code_function_background
rmd_href        Default: $code_reserved
rmd_href_background
    Default: $code_reserved_background
```

Value

Returns the CSS or SCSS (if `theme_as_sass` is TRUE). If `theme_path` is provided, the CSS or SCSS is written to the file and the source is returned invisibly. If `theme_apply` is TRUE, the theme is also installed and applied to the current RStudio session.

rsthemes-actions

Install, List, Try or Remove RStudio Themes

Description

Install, List, Try or Remove RStudio Themes

Usage

```
install_rsthemes(style = "all", include_base16 = FALSE, destdir = NULL)

remove_rsthemes(style = rsthemes_styles(), include_base16 = TRUE)

list_rsthemes(style = "all", include_base16 = TRUE, list_installed = TRUE)

try_rsthemes(style = "all", include_base16 = TRUE, delay = 0)

rsthemes_styles(..., validate = NULL)
```

Arguments

style	Limit to a subgroup of themes, chosen from the options returned by rsthemes_styles() .
include_base16	Should the base16 themes be included?
destdir	The destination directory for the <code>.rstheme</code> files. By default uses rstudioapi::addTheme() to install themes, but this argument lets users install themes to non-standard directories, or in case the location of the RStudio theme directory has changed.
list_installed	Should the installed rsthemes themes be listed (default). If FALSE, the available themes in the rsthemes package are listed instead.
delay	Number of seconds to wait between themes. Set to 0 to be prompted to continue after each theme.
...	Ignored.
validate	If provided to rsthemes_styles() , checks that the specified style is valid.

Functions

- `install_rsthemes`: Install RStudio themes
- `remove_rsthemes`: Remove rsthemes from RStudio
- `list_rsthemes`: List installed themes (default) or available themes
- `try_rsthemes`: Try each rsthemes RStudio theme
- `rsthemes_styles`: List style options

Palettes

rsthemes includes RStudio themes based on the following colors palettes.

- **base16** (Various Authors)
- **Fairyfloss** (Amy Wibowo (sailorhg))
- **Flat White** (Dmitry Biletskyy)
- **Nord** (Sven Greb)
- **Oceanic Plus** (Marco Scannadinari)
- **Atom One Dark**
- **Atom One Light**
- **Solarized** (Ethan Schoonover)
- **Horizon Dark** (Jonathan Olaleye)
- **al1y-syntax-highlighting** (Eric Bailey)
- **Night Owl** (Sarah Drasner)
 - with huge thanks to original **Night Owl**ish implementation in RStudio by **Mara Averick**
- **Yule RStudio**
 - Based on the **Yule tmTheme**
 - Ported from **gadenbuie/yule-rstudio**
 - Featuring a background image by **Joanna Kosinska**
- **Material Theme**
 - Contributed to rsthemes by **Zac de Lusignan**
- **Serendipity** (wickedtemplates)

rstheme_partial

RStudio Partial Themes

Description

Partial themes for RStudio to be included as desired in `rstheme()`.

Usage

```
rstheme_command_palette(  
  background = "$ui_background",  
  search_background = "$ui_command_palette_background",  
  border = "$ui_command_palette_background",  
  item_background = "$ui_command_palette_background",  
  item_color = "$ui_foreground",  
  
  item_hover_background = "if($ui_rstudio_is_dark, lighten($ui_command_palette_item_background, 5%),
```

```

    item_selected_background = "if($ui_rstudio_is_dark, lighten($ui_command_palette_item_background, 1
)

rstheme_rainbow_parentheses(
  ui_paren_0 = "rgb(255, 124, 124)",
  ui_paren_1 = "rgb(255, 187, 0)",
  ui_paren_2 = "#00ff1f",
  ui_paren_3 = "#2bcf2b",
  ui_paren_4 = "lightskyblue",
  ui_paren_5 = "rgb(150, 94, 255)",
  ui_paren_6 = "violet"
)

rstheme_large_tabs()

rstheme_dialog_options(
  background = "$ui_rstudio_background",
  foreground = "$ui_rstudio_foreground",

  border = "if($ui_rstudio_is_dark, lighten($ui_rstudio_dialog_background, 5%), darken($ui_rstudio_d
selected_background = "$ui_rstudio_dialog_border",
selected_foreground = "$ui_rstudio_dialog_foreground",
heading_foreground = "$code_function",
help_foreground = "$code_value",
button_foreground = "$ui_rstudio_dialog_foreground",
button_background = "$ui_rstudio_dialog_background",
button_border = "$ui_rstudio_dialog_border",
button_hover_foreground = "lighten($ui_rstudio_dialog_button_foreground, 10%)",
button_hover_background = "lighten($ui_rstudio_dialog_button_background, 10%)",
button_hover_border = "$ui_rstudio_dialog_border",
input_foreground = "$ui_rstudio_dialog_foreground",
input_background = "$ui_rstudio_dialog_background",
input_border = "$ui_rstudio_dialog_border",
checkbox_background = "lighten($ui_rstudio_dialog_background, 5%)",
checkbox_foreground = "$ui_rstudio_dialog_foreground",
select_background = "lighten($ui_rstudio_dialog_background, 5%)",
select_foreground = "$ui_rstudio_dialog_foreground"
)

rstheme_terminal_colors(
  theme_dark = TRUE,
  red = NULL,
  green = NULL,
  yellow = NULL,
  blue = NULL,
  magenta = NULL,
  cyan = NULL,
  black = if (theme_dark) "darken($ui_background, 5%)" else

```

```

    "darken($ui_foreground, 5%)",
white = if (theme_dark) "darken($ui_foreground, 5%)" else
    "darken($ui_background, 5%)",
red_bright = red,
green_bright = green,
yellow_bright = yellow,
blue_bright = blue,
magenta_bright = magenta,
cyan_bright = cyan,
black_bright = "lighten($terminal_color_black, 10%)",
white_bright = "lighten($terminal_color_white, 10%)"
)

```

Arguments

search_background, item_background, item_color,
item_hover_background, item_selected_background
Additional color options for the command palette.

border Border color

ui_paren_0, ui_paren_1, ui_paren_2, ui_paren_3, ui_paren_4, ui_paren_5,
ui_paren_6
Parentheses colors 0 through 6.

foreground, background
Foreground (text) or background color

selected_background, selected_foreground, heading_foreground,
help_foreground, button_foreground, button_background,
button_border, button_hover_foreground, button_hover_background,
button_hover_border, input_foreground, input_background,
input_border, checkbox_background, checkbox_foreground,
select_background, select_foreground
Additional colors for RStudio dialog boxes, setting SCSS variables prefixed with
\$ui_rstudio_dialog_<argument>.

theme_dark Is the theme dark (otherwise light). Used to set the default terminal colors for
black and white based on the theme's foreground and background colors.

black, black_bright, red, red_bright, green, green_bright, yellow,
yellow_bright, blue, blue_bright, magenta, magenta_bright, cyan,
cyan_bright, white, white_bright
Terminal colors, 8 normal and 8 bright.

Functions

- rstheme_command_palette: Theme the RStudio Command Palette
- rstheme_rainbow_parentheses: Theme the rainbow parentheses colors
- rstheme_large_tabs: Enlarges the tabs
- rstheme_dialog_options: Themes dialog windows, e.g. *Global Options*
- rstheme_terminal_colors: Theme the terminal colors

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