Package: circadia (via r-universe)

July 1, 2026

Title Circadia Lab Colour Palettes and ggplot2 Theme

Version 0.1.0

Description Provides the shared visual identity for the Circadia Lab R ecosystem: colour palettes, ggplot2 theme, and ggplot2 scales. Palettes cover qualitative, sequential, and diverging use cases anchored on the lab's brand colours. Designed to be used alongside zeitR, slumbR, tallieR, and syncR.

License MIT + file LICENSE

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.2

VignetteBuilder knitr

Depends R (>= 4.1.0)

Imports ggplot2 (>= 3.4.0)

Suggests htmltools, knitr, pkgdown, rmarkdown, testthat (>= 3.0.0), patchwork

Config/testthat/edition 3

URL https://github.com/circadia-bio/circadia

BugReports https://github.com/circadia-bio/circadia/issues

Repository https://circadia-bio.r-universe.dev

Date/Publication 2026-06-24 23:46:23 UTC

RemoteUrl https://github.com/circadia-bio/circadia

RemoteRef main

RemoteSha e18d4346e36c551b215a12005ac9a42b1388632b

Contents

circadia_palette 2
circadia_palettes 3

domain_colour_for 3
scale_colour_circadia 4
scale_colour_circadia_c 5
scale_fill_circadia 5
scale_fill_circadia_c 6
theme_circadia 6

Index **8**

`circadia_palette` *Retrieve a Circadia Lab palette*

Description

Returns a named character vector of hex colour codes for the requested palette. Suitable for direct use in `ggplot2::scale_fill_manual()` or `ggplot2::scale_colour_manual()`.

Usage

```
circadia_palette(palette = "main", n = NULL, reverse = FALSE)
```

Arguments

`palette`	Name of the palette. One of `"main"`, `"core"`, `"diverging"`, `"diverging_simple"`, `"blues"`, `"warm"`, `"seq_blue"`, `"seq_coral"`, `"seq_amber"`, `"seq_ochre"`. Defaults to `"main"`.
`n`	Number of colours to return. If `NULL` (default) all colours in the palette are returned. If `n` is smaller than the palette length the first `n` colours are returned; if larger an error is thrown.
`reverse`	Logical. Reverse the order of the palette? Default `FALSE`.

Details

Gradient palettes come in two families:

- **Complex** (multi-hue): `"diverging"`, `"blues"`, `"warm"`
- **Simple** (monochromatic / direct interpolation): `"diverging_simple"`, `"seq_blue"`, `"seq_coral"`, `"seq_amber"`, `"seq_ochre"`

Value

A named (or unnamed for gradient palettes) character vector of hex colour codes.

Examples

```
circadia_palette()
circadia_palette("core")
circadia_palette("diverging_simple")
circadia_palette("seq_blue", n = 3)
circadia_palette("diverging", reverse = TRUE)
```

`circadia_palettes` *List all available Circadia Lab palettes*

Description

Prints the names and sizes of all palettes defined in the package.

Usage

```
circadia_palettes()
```

Value

A named integer vector of palette lengths, invisibly.

Examples

```
circadia_palettes()
```

`domain_colour_for` *Return the brand colour for a Circadia Lab data domain*

Description

Looks up the hex colour associated with a named data domain. Useful when you want to colour-code panels or annotations by data type rather than by group membership.

Usage

```
domain_colour_for(domain)
```

Arguments

`domain`	Character scalar. One of `"actigraphy"`, `"sleep"`, `"circadian"`, `"questionnaire"`, `"demographics"`, `"clinical"`, `"light"`, `"activity"`.

Value

A length-1 named character vector with the domain hex colour, e.g. `c(actigraphy = "#014370")`.

Examples

```
domain_colour_for("sleep")
domain_colour_for("light")
domain_colour_for("activity")
```

---

scale_colour_circadia *Circadia Lab discrete colour scale*

Description

Applies a Circadia Lab qualitative palette to the `colour` aesthetic.

Usage

```
scale_colour_circadia(palette = "main", reverse = FALSE, ...)

scale_color_circadia(palette = "main", reverse = FALSE, ...)
```

Arguments

`palette`	Palette name. Default `"main"`.
`reverse`	Logical. Reverse the palette? Default `FALSE`.
`...`	Additional arguments passed to `ggplot2::discrete_scale()`.

Examples

```
library(ggplot2)
ggplot(mtcars, aes(wt, mpg, colour = factor(cyl))) +
  geom_point(size = 3) +
  scale_colour_circadia() +
  theme_circadia()
```

scale_colour_circadia_c *Circadia Lab continuous colour scale*

Description

Interpolates across a Circadia Lab palette for continuous `colour` data. The `"diverging"` palette is recommended for data centred at zero; `"blues"` or `"warm"` for unipolar data.

Usage

```
scale_colour_circadia_c(palette = "blues", reverse = FALSE, ...)

scale_color_circadia_c(palette = "blues", reverse = FALSE, ...)
```

Arguments

`palette`	Palette name. Default `"blues"`.
`reverse`	Logical. Reverse the palette? Default `FALSE`.
`...`	Additional arguments passed to `ggplot2::scale_colour_gradientn()`.

Examples

```
library(ggplot2)
ggplot(faithfuld, aes(waiting, eruptions, fill = density)) +
  geom_tile() +
  scale_fill_circadia_c("warm") +
  theme_circadia()
```

scale_fill_circadia *Circadia Lab discrete fill scale*

Description

Applies a Circadia Lab qualitative palette to the `fill` aesthetic.

Usage

```
scale_fill_circadia(palette = "main", reverse = FALSE, ...)
```

Arguments

`palette`	Palette name. Default `"main"`.
`reverse`	Logical. Reverse the palette? Default `FALSE`.
`...`	Additional arguments passed to `ggplot2::discrete_scale()`.

Examples

```
library(ggplot2)
ggplot(mpg, aes(class, fill = drv)) +
  geom_bar() +
  scale_fill_circadia() +
  theme_circadia()
```

`scale_fill_circadia_c` *Circadia Lab continuous fill scale*

Description

Interpolates across a Circadia Lab palette for continuous `fill` data.

Usage

```
scale_fill_circadia_c(palette = "blues", reverse = FALSE, ...)
```

Arguments

`palette`	Palette name. Default `"blues"`.
`reverse`	Logical. Reverse the palette? Default `FALSE`.
`...`	Additional arguments passed to `ggplot2::scale_colour_gradientn()`.

`theme_circadia` *Circadia Lab ggplot2 theme*

Description

A clean, minimal ggplot2 theme built on `ggplot2::theme_minimal()` with typography and spacing consistent with Circadia Lab figures.

Usage

```
theme_circadia(
  base_size = 12,
  base_family = "",
  grid = "xy",
  legend_position = "right"
)
```

Arguments

base_size	Base font size in points. Default 12.
base_family	Base font family. Default "" (ggplot2 default).
grid	Which grid lines to show. One of "xy" (both, default), "x" (vertical only), "y" (horizontal only), "none".
legend_position	Position of the legend passed to ggplot2::theme(). Default "right".

Value

A ggplot2::theme() object.

Examples

```
library(ggplot2)
ggplot(mtcars, aes(wt, mpg, colour = factor(cyl))) +
  geom_point(size = 2) +
  scale_colour_circadia() +
  theme_circadia()
```

Index

circadia_palette, 2
circadia_palettes, 3

domain_colour_for, 3

ggplot2::discrete_scale(), *4*, *5*
ggplot2::scale_colour_gradientn(), *5*, *6*
ggplot2::scale_colour_manual(), *2*
ggplot2::scale_fill_manual(), *2*
ggplot2::theme(), *7*
ggplot2::theme_minimal(), *6*

scale_color_circadia
        *(*scale_colour_circadia*)*, 4
scale_color_circadia_c
        *(*scale_colour_circadia_c*)*, 5
scale_colour_circadia, 4
scale_colour_circadia_c, 5
scale_fill_circadia, 5
scale_fill_circadia_c, 6

theme_circadia, 6