Package: ltc (via r-universe)

May 20, 2026

Title Collection of Artistic and Nature-Inspired Color Palettes

Version 0.3.0

Description Offers a variety of color palettes inspired by art, nature, and personal inspirations. Each palette is accompanied by a unique backstory, enriching the understanding and significance of the colors.

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Encoding UTF-8

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URL https://github.com/loukesio/ltc-color-palettes

BugReports https://github.com/loukesio/ltc-color-palettes/issues

Imports grDevices, ggplot2, ggforce, dplyr, colorspace, crayon

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Suggests spelling

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Contents

`adjust_ltc` *Adjust Lightness of Palette Colors*

Description

Darken or lighten an entire palette or specific colors within it. Uses the colorspace package for perceptually uniform adjustments.

Usage

```
adjust_ltc(palette_name, amount = 0, which = NULL)
```

Arguments

`palette_name`	Character or unquoted name. Name of the ltc palette to adjust.
`amount`	Numeric. Amount to adjust lightness (-100 to 100). Negative values darken, positive values lighten. Default is 0 (no change).
`which`	Integer vector. Which colors to adjust (e.g., c(1, 3) for 1st and 3rd). If NULL (default), adjusts all colors.

Value

A vector of adjusted hex color codes with class "ltc"

Examples

```
# Darken entire palette
adjust_ltc(alger, amount = -20)

# Lighten entire palette
adjust_ltc("maya", amount = 30)

# Darken only specific colors
adjust_ltc(remains, amount = -25, which = c(2, 4))
```

bird *Plot a Colour Palette as a Bird*

Description

Visualizes a selected colour palette in the form of a bird drawing. Requires at least 5 colors in the palette.

Usage

```
bird(chrom)
```

Arguments

chrom	An ltc palette object

Value

A ggplot2 object showing a bird drawing using the selected colours.

Examples

```
# Create a bird visualization
pal <- ltc(paloma)
bird(pal)
```

custom_adjust_ltc *Create Custom Palette with Individual Color Adjustments*

Description

Apply different lightness adjustments to each color in a palette.

Usage

```
custom_adjust_ltc(palette_name, adjustments)
```

Arguments

palette_name	Character or unquoted name. Name of the ltc palette.
adjustments	Numeric vector. Lightness adjustments for each color (-100 to 100). Length must match the palette length.

Value

A vector of adjusted hex color codes with class "ltc"

Examples

```
# Different adjustment for each color
custom_adjust_ltc(remains, c(-30, 0, 40, 0))

# Create gradient effect
custom_adjust_ltc("maya", c(-40, -20, 0, 20, 40))
```

`desaturate_ltc` *Desaturate Palette Colors*

Description

Reduce color saturation (make colors more gray).

Usage

```
desaturate_ltc(palette_name, amount = 0.5, which = NULL)
```

Arguments

`palette_name`	Character or unquoted name. Name of the ltc palette.
`amount`	Numeric. Desaturation amount (0 to 1). 0 = no change, 1 = completely gray.
`which`	Integer vector. Which colors to desaturate. If NULL (default), affects all colors.

Value

A vector of desaturated hex color codes with class "ltc"

Examples

```
# Desaturate entire palette
desaturate_ltc(luminaries, amount = 0.5)

# Desaturate only specific colors
desaturate_ltc("heatmap2", amount = 0.7, which = c(1, 2))
```

info *Information about the Colour Palettes*

Description

This dataframe contains the backstory or inspiration behind each color palette.

Usage

```
info
```

Format

An object of class `data.frame` with 31 rows and 2 columns.

ltc *List of colour palettes*

Description

A list containing predefined colour palettes with artistic backstories.

This function provides the desired colour palette by name. You can call it with or without quotes: ltc(paloma) or ltc("paloma")

Usage

```
palettes

ltc(name, n, type = c("discrete", "continuous"))
```

Arguments

`name`	Character or unquoted name. The name of the desired palette.
`n`	Integer. The number of colors you want from the palette. If omitted, it uses all colors from the palette.
`type`	The type of palette. Either "discrete" or "continuous".

Format

An object of class `list` of length 31.

Details

ltc: A Collection of Art-inspired Colour Palettes

This package provides a collection of color palettes inspired by art, nature, and personal preferences. Each palette has a backstory, providing context and meaning to the colors.

Value

A vector of hex color codes with class "ltc"

Examples

```
# Load a palette (with or without quotes)
ltc(paloma)
ltc("maya")

# Select first 3 colors
ltc(maya, n = 3)

# Generate continuous palette
ltc(remains, n = 10, type = "continuous")
```

`plot.ltc` *Plot a Colour Palette*

Description

Visualizes a selected colour palette as a bar of colours.

Usage

```
## S3 method for class 'ltc'
plot(x, ...)
```

Arguments

`x`	An ltc palette object
`...`	Additional arguments (currently unused).

Value

A ggplot2 object showing the selected colours.

Examples

```
# Create and plot a palette
pal <- ltc(paloma)
plot(pal)
```

`print.ltc` *Print Method for ltc Objects*

Description

Custom print method that displays the palette name followed by hex color codes with actual colors visible in the console.

Usage

```
## S3 method for class 'ltc'
print(x, ...)
```

Arguments

`x`	An ltc palette object
`...`	Additional arguments (currently unused)

Value

Invisibly returns the palette object

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