Package: prakriti (via r-universe)

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Title Color Palettes Inspired by India's Natural Landscapes

Version 0.1.4

Description Curated color palettes drawn from India's natural beauty - Himalayan snow, Thar dunes, Kerala backwaters, Andaman reefs, Spiti's cold desert, Kashmir's autumn chinar, and more. Provides discrete and continuous palettes with first-class 'ggplot2' integration through scale_color_prakriti() and scale_fill_prakriti(), plus base graphics helpers for displaying palettes.

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Encoding UTF-8

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Depends R (>= 4.0)

Imports grDevices, graphics, ggplot2 (>= 3.4.0)

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

VignetteBuilder knitr

Config/testthat/edition 3

URL https://orijitghosh.github.io/prakriti/, https://github.com/orijitghosh/prakriti

BugReports https://github.com/orijitghosh/prakriti/issues

NeedsCompilation no

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Contents

`display_prakriti` *Display one or all prakriti palettes*

Description

Renders a base-graphics swatch view of one palette, or a stacked grid of all palettes. Useful for quick visual inspection in the R console / RStudio Plots pane.

Usage

```
display_prakriti(name = NULL, show_type = TRUE)
```

Arguments

`name`	Character or `NULL`. Name of the palette. If `NULL` (default), displays all 30 palettes stacked vertically.
`show_type`	Logical. If `TRUE` (default), includes the palette type (sequential, diverging, qualitative) in row labels. Must be `TRUE` or `FALSE` - to filter by type, use `prakriti_info()` instead.

Value

Invisibly returns `NULL`. Called for its side effect.

Examples

```
display_prakriti("rann")

display_prakriti()
display_prakriti(show_type = FALSE)
```

prakriti_info *Tabular metadata for prakriti palettes*

Description

Returns a data frame with one row per palette describing its name, type, length, and natural-landscape inspiration.

Usage

```
prakriti_info(name = NULL)
```

Arguments

name	Character or NULL. If supplied, restricts the result to the named palette(s). If NULL (default), returns all palettes.

Value

A data frame with columns name, type, n, inspiration.

Examples

```
prakriti_info()
prakriti_info("himalaya")
```

prakriti_names *Names of available prakriti palettes*

Description

Names of available prakriti palettes

Usage

```
prakriti_names()
```

Value

A character vector of palette names.

Examples

```
prakriti_names()
```

prakriti_palette *Build a color palette from a* prakriti *palette*

Description

Returns a character vector of hex codes drawn from one of the named palettes in prakriti_palettes. Supports both discrete subsetting and continuous interpolation via grDevices::colorRampPalette().

Usage

```
prakriti_palette(
  name,
  n = NULL,
  type = c("discrete", "continuous"),
  direction = 1
)
```

Arguments

name	Character. Name of the palette. See prakriti_names().
n	Integer. Number of colors to return. If NULL (default), returns the full base palette unchanged.
type	Either "discrete" (subset / recycle base colors) or "continuous" (interpolate smoothly across the base colors).
direction	1 (default) or -1 to reverse the palette order.

Value

A character vector of hex codes with attributes name and type.

Examples

```
prakriti_palette("himalaya")
prakriti_palette("himalaya", n = 3)
prakriti_palette("himalaya", n = 50, type = "continuous")
prakriti_palette("thar", direction = -1)
```

prakriti_palettes *Color palettes inspired by India's natural landscapes*

Description

A named list of 30 palettes. Each element is itself a list with:

- `colors` - character vector of hex codes
- `type` - one of `"sequential"`, `"diverging"`, `"qualitative"`
- `inspiration` - short prose description of the source landscape

Usage

```
prakriti_palettes
```

Format

A named list of length 30.

Examples

```
names(prakriti_palettes)
prakriti_palettes$himalaya$colors
```

scale_prakriti *ggplot2 color and fill scales for prakriti palettes*

Description

These functions plug `prakriti` palettes into `ggplot2`. By default the scale type (discrete vs. continuous) is chosen from the palette's metadata: qualitative palettes default to discrete; sequential and diverging palettes default to continuous. Override with `discrete`.

Usage

```
scale_color_prakriti(name, ..., discrete = NULL, direction = 1)

scale_colour_prakriti(name, ..., discrete = NULL, direction = 1)

scale_fill_prakriti(name, ..., discrete = NULL, direction = 1)
```

Arguments

name	Character. Name of the palette. See prakriti_names().
...	Additional arguments passed to the underlying ggplot2 scale constructor (ggplot2::discrete_scale(), ggplot2::scale_color_gradientn(), or ggplot2::scale_fill_gradientn()).
discrete	Logical or NULL. If NULL (default), inferred from the palette's type. Set TRUE to force discrete, FALSE for continuous.
direction	1 (default) or -1 to reverse the palette order.

Value

A ggplot2 scale object.

Examples

```
library(ggplot2)
ggplot(mtcars, aes(wt, mpg, color = factor(cyl))) +
  geom_point(size = 3) +
  scale_color_prakriti("valley_of_flowers")

ggplot(faithfuld, aes(waiting, eruptions, fill = density)) +
  geom_raster() +
  scale_fill_prakriti("himalaya")
```

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