Package ‘scico’
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Title Colour Palettes Based on the Scientific Colour-Maps
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Description Colour choice in information visualisation is important in order to
avoid being mislead by inherent bias in the used colour palette. The ‘scico’
package provides access to the perceptually uniform and colour-blindness
friendly palettes developed by Fabio Crameri and released under the
“Scientific Colour-Maps” moniker. The package contains 24 different palettes
and includes both diverging and sequential types.

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Description

Colour choice in information visualisation is important in order to avoid being mislead by inherent bias in the used colour palette. The ‘scico’ package provides access to the perceptually uniform and colour-blindness friendly palettes developed by Fabio Crameri and released under the "Scientific Colour-Maps" moniker. The package contains 24 different palettes and includes both diverging and sequential types.

Author(s)

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Authors:
• Fabio Crameri

See Also

Useful links:
• https://github.com/thomasp85/scico
• Report bugs at https://github.com/thomasp85/scico/issues

Usage

scale_colour_scico(..., alpha = NULL, begin = 0, end = 1, direction = 1, palette = "bilbao")
scale_color_scico(..., alpha = NULL, begin = 0, end = 1, direction = 1, palette = "bilbao")
scale_fill_scico(..., alpha = NULL, begin = 0, end = 1, direction = 1, palette = "bilbao")
scale_colour_scico_d(..., alpha = 1, begin = 0, end = 1,
    direction = 1, palette = "batlow", aesthetics = "colour")

scale_color_scico_d(..., alpha = 1, begin = 0, end = 1,
    direction = 1, palette = "batlow", aesthetics = "colour")

scale_fill_scico_d(..., alpha = 1, begin = 0, end = 1,
    direction = 1, palette = "batlow", aesthetics = "fill")

Arguments

... Arguments to pass on to ggplot2::scale_colour_gradientn(),
    ggplot2::scale_fill_gradientn(),
    ggplot2::ggplot2::discrete_scale()
alpha The opacity of the generated colours. If specified rgba values will be generated.
    The default (NULL) will generate rgb values which corresponds to
    alpha = 1
begin The interval within the palette to sample colours from. Defaults to 0 and 1
    respectively
end The interval within the palette to sample colours from. Defaults to 0 and 1
    respectively
direction Either 1 or -1. If -1 the palette will be reversed
palette The name of the palette to sample from. See scico_palette_names() for a list
    of possible names
aesthetics Character string or vector of character strings listing the name(s) of the aesthetic(s)
    that this scale works with. This can be useful, for example, to apply
    colour settings to the colour and fill aesthetics at the same time, via
    aesthetics = c("colour", "fill").

Value

A ScaleContinuous or ScaleDiscrete object that can be added to a ggplot object

Examples

```r
if (require('ggplot2')) {
  volcano <- data.frame(
    x = rep(seq_len(ncol(volcano)), each = nrow(volcano)),
    y = rep(seq_len(nrow(volcano)), ncol(volcano)),
    height = as.vector(volcano)
  )

  ggplot(volcano, aes(x = x, y = y, fill = height)) +
    geom_raster() +
    scale_fill_scico(palette = 'tokyo')

  ggplot(iris, aes(x=Petal.Width, y=Petal.Length)) +
    geom_point(aes(color=Species), size=10) +
    scale_colour_scico_d()
}
```
**scico**  

*Scientific colour map palettes*

**Description**

This function constructs palettes of the specified size based on the colour maps developed by Fabio Crameri. It follows the same API style as `viridis()` from the `viridislite` package so anyone familiar with this package can easily adapt to that.

**Usage**

```r
scico(n, alpha = NULLL, begin = 0, end = 1, direction = 1, 
      palette = "bilbao")
```

**Arguments**

- `n` The number of colours to generate for the palette
- `alpha` The opacity of the generated colours. If specified rgba values will be generated. The default (NULL) will generate rgb values which corresponds to `alpha = 1`
- `begin, end` The interval within the palette to sample colours from. Defaults to 0 and 1 respectively
- `direction` Either 1 or -1. If -1 the palette will be reversed
- `palette` The name of the palette to sample from. See `scico_palette_names()` for a list of possible names

**Value**

A character vector of length `n` with hexencoded rgb(a) colour values

**References**


scico_palette_show

Examples

# Use the default palette
scico(15)

# Flip the direction
scico(15, direction = -1)

# Take a subset of a palette
scico(15, begin = 0.3, end = 0.6, palette = 'berlin')

---

scico_palette_show Show the different scico palettes

Description

This is a simple function to show a gradient of the different palettes available in the scico package

Usage

scico_palette_show(palettes = scico_palette_names())

Arguments

palettes One or more palette names to show

Examples

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