

Package ‘palettes’

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Title Methods for Colour Vectors and Colour Palettes

Version 0.2.2

Description Provides a comprehensive library for colour vectors and colour palettes using a new family of colour classes (palettes_colour and palettes_palette) that always print as hex codes with colour previews. Capabilities include: formatting, casting and coercion, extraction and updating of components, plotting, colour mixing arithmetic, and colour interpolation.

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URL <https://mccarthy-m-g.github.io/palettes/>,
<https://github.com/mccarthy-m-g/palettes>

BugReports <https://github.com/mccarthy-m-g/palettes/issues>

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as_tibble.palettes_colour

Cast colour vectors and colour palettes to tibbles

Description

as_tibble() turns an existing colour vector or colour palette into a so-called [tibble](#), a data frame with class tbl_df.

Usage

```
## S3 method for class 'palettes_colour'
as_tibble(x, ...)

## S3 method for class 'palettes_palette'
as_tibble(x, ...)
```

Arguments

- x An object of class [palettes_palette](#) or [palettes_colour](#).
- ... Not used.

Value

A [tibble](#). The output has the following properties:

- For objects of class [palettes_colour](#): A tibble with column colour containing the colour vector.
- For objects of class [palettes_palette](#): A tibble with columns palette and colour containing palette names and colour vectors.

See Also

[pal_colour\(\)](#), [pal_palette\(\)](#)

Examples

```
x <- pal_colour(c("#663171", "#EA7428", "#0C7156"))
as_tibble(x)

y <- pal_palette(
  Egypt = c("#DD5129", "#0F7BA2", "#43B284", "#FAB255"),
  Java  = c("#663171", "#CF3A36", "#EA7428", "#E2998A", "#0C7156")
)
as_tibble(y)
```

carto_palettes

Cartography palettes

Description

Discrete, sequential, and diverging palettes created by cartographers.

Usage

discrete_palettes

sequential_palettes

diverging_palettes

Format

discrete_palettes:

An object of class `palettes_palette` with 6 colour palettes. Use `names(discrete_palettes)` to return all palette names.

sequential_palettes:

An object of class `palettes_palette` with 19 colour palettes. Use `names(sequential_palettes)` to return all palette names.

`diverging_palettes:`

An object of class `palettes_palette` with 7 colour palettes. Use `names(diverging_palettes)` to return all palette names.

Source

<https://github.com/CartoDB/CartoColor/>

See Also

`pal_palette()`, `pal_colour()`

Examples

```
# Get all palettes by name.
names(discrete_palettes)
names(sequential_palettes)
names(diverging_palettes)

# Plot all palettes.
plot(discrete_palettes)
plot(sequential_palettes)
plot(diverging_palettes)
```

colour-mixing-arithmetic

Mix colour vectors with arithmetic operators

Description

These binary operators mix colour vectors with arithmetic operators.

Usage

```
## S3 method for class 'palettes_colour'
e1 + e2
```

Arguments

`e1`, `e2` Colour vectors of class `palettes_colour`.

Value

The binary operators return colour vectors of class `palettes_colour` containing the result of the element by element operations. If involving a zero-length vector the result has length zero. Otherwise, the elements of shorter vectors are recycled as necessary. The `+` operator is for additive colour mixing.

Examples

```
x <- pal_colour("red")
y <- pal_colour("blue")
x + y
```

colour-mixing-math	<i>Mix colour vectors with math functions</i>
--------------------	---

Description

These functions mix colour vectors with math functions.

Usage

```
## S3 method for class 'palettes_colour'
sum(..., na.rm = FALSE)

## S3 method for class 'palettes_colour'
cumsum(x)
```

Arguments

...	Colour vectors of class <code>palettes_colour</code> .
na.rm	Whether to include missing values. Either TRUE or FALSE.
x	An object of class <code>palettes_colour</code> .

Value

These functions return colour vectors of class `palettes_colour`:

- `sum()` returns the sum of all the colours present in its arguments with additive colour mixing.
- `cumsum()` returns a vector whose elements are the cumulative sums of the elements of the argument with additive colour mixing.

Examples

```
x <- pal_colour(c("red", "blue"))
sum(x)

x <- pal_colour(c("red", "blue", "yellow"))
cumsum(x)
```

list_colour_symbols	<i>Symbols to use in colour previews</i>
---------------------	--

Description

List the symbols available to use in colour previews.

Usage

```
list_colour_symbols()
```

Details

By default, Unicode characters are used for symbols in colour previews in UTF-8 supported outputs. They automatically fall back to ASCII characters when the output does not support them.

To change the symbol used for colour previews, set the `palettes.print_symbol` option to a symbol name listed in `list_colour_symbols()`.

Value

This function is called for its side effects and has no return value.

See Also

[help\("palettes-options"\)](#), [cli::is_utf8_output\(\)](#)

Examples

```
list_colour_symbols()
```

met_palettes	<i>Metropolitan Museum of Art palettes</i>
--------------	--

Description

Palettes inspired by works at the Metropolitan Museum of Art in New York. Pieces selected come from various time periods, regions, and mediums.

Usage

```
met_palettes
```

```
met_palettes_a11y
```

Format

`met_palettes:`

An object of class `palettes_palette` with 56 colour palettes. Use `names(met_palettes)` to return all palette names.

`met_palettes_all:`

An object of class `palettes_palette` limited to 24 colourblind accessible palettes. All colours in each palette are distinguishable with deuteranopia, protanopia, and tritanopia. Use `names(met_palettes_all)` to return all palette names.

Author(s)

Blake Robert Mills

Source

<https://github.com/BlakeMills/MetBrewer>

See Also

`pal_palette()`, `pal_colour()`, `MetBrewer::met.brewer()`

Examples

```
# Get all palettes by name.
names(met_palettes)

# Plot all palettes.
plot(met_palettes)
```

nord_palettes

Nord palettes

Description

Dimmed pastel palettes inspired by the Arctic and Canadian wilderness.

Usage

```
nord_palettes
```

Format

`nord_palettes:`

An object of class `palettes_palette` with 16 colour palettes. Use `names(nord_palettes)` to return all palette names.

Author(s)

Jake Kaupp

Source

<https://github.com/jkaupp/nord>

See Also

[pal_palette\(\)](#), [pal_colour\(\)](#), [nord::nord\(\)](#)

Examples

```
# Get all palettes by name.
names(nord_palettes)

# Plot all palettes.
plot(nord_palettes)
```

palettes-options

Package options

Description

Options that adjust the behaviour of the palettes package.

Details

These options can be set via [options\(\)](#) and queried via [getOption\(\)](#).

Options for the palettes package

palettes.print_symbol: Character string setting the symbol used for colour previews. See [list_colour_symbols\(\)](#) for a list of symbol choices. Defaults to "circle_small". Set to FALSE to disable printing symbols.

palettes.print_hex: Logical setting whether to print hex codes in colour previews. Defaults to TRUE.

palettes.print_alpha: Logical setting whether to print the hex code alpha channel in colour previews. Defaults to FALSE. Colours without an alpha channel will be assumed to be full opacity.

palettes.print_sep: Character string to separate colours by in colour previews. Defaults to "".

palettes.print_width: Integer setting the maximum number of colours on a line in colour previews. Defaults to 1.

palettes.print_index: Logical setting whether to print the index of the first colour on each line in colour previews. Defaults to FALSE.

Note

To disable formatting in colour previews set both `palettes.print_symbol` and `palettes.print_hex` to `FALSE`.

Examples

```
options(
  palettes.print_symbol = "square",
  palettes.print_hex = FALSE,
  palettes.print_sep = " ",
  palettes.print_width = 3,
  palettes.print_index = TRUE
)
met_palettes$Cross
```

pal_colour

Colour vectors

Description

This creates a character vector that represents colours so when it is printed, colours will be formatted as hexadecimal strings.

Usage

```
pal_colour(x = character())

is_colour(x)

as_colour(x)

## Default S3 method:
as_colour(x)

## S3 method for class 'palettes_palette'
as_colour(x)
```

Arguments

- | | |
|---|---|
| x | <ul style="list-style-type: none"> • For <code>pal_colour()</code>: A character vector of any of the three kinds of R colour specifications. • For <code>as_colour()</code>: An object to be coerced. • For <code>is_colour()</code>: An object to test. |
|---|---|

Details

Colours can be specified using either:

- Hexadecimal strings of the form "#RRGGBB" or "#RRGGBBAA"
- Colour names from `grDevices::colors()`
- Positive integers `i` that index into `grDevices::palette()[i]`

Value

An S3 vector of class `palettes_colour`.

See Also

`pal_palette()`

Examples

```
pal_colour(c("darkred", "#0F7BA2"))

is_colour("darkred")
is_colour(pal_colour("darkred"))

as_colour("#0F7BA2")
```

pal_numeric	<i>Colour vector and colour palette mapping</i>
-------------	---

Description

Conveniently maps data values (numeric or factor/character) to colours according to a given colour vector or colour palette.

Usage

```
pal_numeric(
  palette,
  domain,
  na.color = "#808080",
  alpha = FALSE,
  reverse = FALSE
)

pal_bin(
  palette,
  domain,
  bins = 7,
  pretty = TRUE,
```

```

    na.color = "#808080",
    alpha = FALSE,
    reverse = FALSE,
    right = FALSE
  )

  pal_quantile(
    palette,
    domain,
    n = 4,
    probs = seq(0, 1, length.out = n + 1),
    na.color = "#808080",
    alpha = FALSE,
    reverse = FALSE,
    right = FALSE
  )

  pal_factor(
    palette,
    domain,
    levels = NULL,
    ordered = FALSE,
    na.color = "#808080",
    alpha = FALSE,
    reverse = FALSE
  )

```

Arguments

palette	An object of class <code>palettes_colour</code> or <code>palettes_colour</code> .
domain	The possible values that can be mapped. For <code>pal_numeric</code> and <code>pal_bin</code> , this can be a simple numeric range (e.g. <code>c(0, 100)</code>); <code>pal_quantile</code> needs representative numeric data; and <code>pal_factor</code> needs categorical data. If <code>NULL</code> , then whenever the resulting colour function is called, the <code>x</code> value will represent the domain. This implies that if the function is invoked multiple times, the encoding between values and colours may not be consistent; if consistency is needed, you must provide a non- <code>NULL</code> domain.
na.color	The colour to return for NA values. Note that <code>na.color = NA</code> is valid.
alpha	Whether alpha channels should be respected or ignored. If <code>TRUE</code> then colors without explicit alpha information will be treated as fully opaque.
reverse	Whether the colours in palette should be used in reverse order. For example, if the default order of a palette goes from blue to green, then <code>reverse = TRUE</code> will result in the colors going from green to blue.
bins	Either a numeric vector of two or more unique cut points or a single number (greater than or equal to 2) giving the number of intervals into which the domain values are to be cut.

pretty	Whether to use the function <code>pretty()</code> to generate the bins when the argument bins is a single number. When <code>pretty = TRUE</code> , the actual number of bins may not be the number of bins you specified. When <code>pretty = FALSE</code> , <code>seq()</code> is used to generate the bins and the breaks may not be "pretty".
right	parameter supplied to <code>base::cut()</code> . See Details
n	Number of equal-size quantiles desired. For more precise control, use the <code>probs</code> argument instead.
probs	See <code>stats::quantile()</code> . If provided, the <code>n</code> argument is ignored.
levels	An alternate way of specifying levels; if specified, domain is ignored
ordered	If <code>TRUE</code> and domain needs to be coerced to a factor, treat it as already in the correct order

Details

`pal_numeric` is a simple linear mapping from continuous numeric data to an interpolated palette.

`pal_bin` also maps continuous numeric data, but performs binning based on value (see the `base::cut()` function). `pal_bin` defaults for the `cut` function are `include.lowest = TRUE` and `right = FALSE`.

`pal_quantile` similarly bins numeric data, but via the `stats::quantile()` function.

`pal_factor` maps factors to colours. If the palette is discrete and has a different number of colours than the number of factors, interpolation is used.

Value

A function that takes a single parameter `x`; when called with a vector of numbers (except for `pal_factor`, which expects factors/characters), `#RRGGBB` colour strings are returned (unless `alpha = TRUE` in which case `#RRGGBBAA` may also be possible).

See Also

```
scales::col_numeric()
scales::col_bin()
scales::col_quantile()
scales::col_factor()
```

Examples

```
pal <- pal_bin(met_palettes$Tam, domain = 0:100)
plot(as_colour(pal(sort(runif(16, 0, 100)))))

# Exponential distribution, mapped continuously
pal <- pal_numeric(met_palettes$Tam, domain = NULL)
plot(as_colour(pal(sort(rexp(16)))))

# Exponential distribution, mapped by interval
pal <- pal_bin(met_palettes$Tam, domain = NULL, bins = 4)
plot(as_colour(pal(sort(rexp(16)))))
```

```
# Exponential distribution, mapped by quantile
pal <- pal_quantile(met_palettes$Tam, domain = NULL)
plot(as_colour(pal(sort(rexp(16)))))

# Categorical data; by default, the values being coloured span the gamut...
pal <- pal_factor(met_palettes$Java, domain = NULL)
plot(as_colour(pal(LETTERS[1:5])))

# ...unless the data is a factor, without droplevels...
pal <- pal_factor(met_palettes$Java, domain = NULL)
plot(as_colour(pal(factor(LETTERS[1:5], levels = LETTERS))))

# ...or the domain is stated explicitly.
pal <- pal_factor(met_palettes$Java, domain = NULL, levels = LETTERS)
plot(as_colour(pal(LETTERS[1:5])))
```

pal_palette

Colour palettes

Description

This creates a list of colour vectors.

Usage

```
pal_palette(...)
```

```
is_palette(x)
```

```
as_palette(x)
```

Arguments

- | | |
|-----|--|
| ... | <ul style="list-style-type: none"> For <code>pal_palette()</code>: A named list of character vectors of any of the three kinds of R colour specifications, or a named list of colour vectors of class <code>palettes_colour</code>. |
| x | <ul style="list-style-type: none"> For <code>as_palette()</code>: An object to be coerced. For <code>is_palette()</code>: An object to test. |

Details

Colours can be specified using either:

- Hexadecimal strings of the form `"#RRGGBB"` or `"#RRGGBBAA"`
- Colour names from `grDevices::colors()`
- Positive integers `i` that index into `grDevices::palette()[i]`

Value

An S3 list of class `palettes_palette`.

See Also

[pal_colour\(\)](#)

Examples

```
pal_palette(
  Egypt = c("#DD5129", "#0F7BA2", "#43B284", "#FAB255"),
  Java = c("#663171", "#CF3A36", "#EA7428", "#E2998A", "#0C7156")
)

x <- list(
  Egypt = c("#DD5129", "#0F7BA2", "#43B284", "#FAB255"),
  Java = c("#663171", "#CF3A36", "#EA7428", "#E2998A", "#0C7156")
)
as_palette(x)
```

pal_ramp

Colour vector and colour palette interpolation

Description

Interpolate the set of colours in [palettes_palette](#) or [palettes_colour](#) objects to create new colour palettes.

Usage

```
pal_ramp(
  palette,
  n = NULL,
  direction = 1,
  space = "lab",
  interpolate = c("linear", "spline")
)

## S3 method for class 'palettes_colour'
pal_ramp(
  palette,
  n = NULL,
  direction = 1,
  space = "lab",
  interpolate = c("linear", "spline")
)

## S3 method for class 'palettes_palette'
```

```

pal_ramp(
  palette,
  n = NULL,
  direction = 1,
  space = "lab",
  interpolate = c("linear", "spline")
)

```

Arguments

palette	An object of class <code>palettes_palette</code> or <code>palettes_colour</code> .
n	An integer specifying the number of colours to return.
direction	Sets the order of colours in the scale. If 1, the default, colours are ordered from first to last. If -1, the order of colours is reversed.
space	The colour space to interpolate in. One of: "cmy", "hsl", "hsb", "hsv", "lab" (CIE L*a*b), "hunterlab" (Hunter Lab), "oklab", "lch" (CIE Lch(ab) / polar-LAB), "luv", "rgb" (sRGB), "xyz", "yxy" (CIE xyY), "hcl" (CIE Lch(uv) / polarLuv), or "oklch" (Polar form of oklab).
interpolate	The interpolation method. Either "linear" (default) or "spline".

Value

An object of the same type as `palette`. The output has the following properties:

- For objects of class `palettes_colour`: A colour vector with `n` colours.
- For objects of class `palettes_palette`: Colour palettes with `n` colours in each palette.

See Also

`pal_colour()`, `pal_palette()`

Examples

```

# The class returned after interpolation matches the input class.
x <- pal_colour(c("darkslateblue", "cornflowerblue", "slategray1"))
y <- pal_palette(blues = x)
class(pal_ramp(x))
class(pal_ramp(y))

# Choose between linear and spline interpolation.
pal_ramp(x, n = 7, interpolate = "linear")
pal_ramp(x, n = 7, interpolate = "spline")

# Palettes will have the same length after interpolation, regardless of the
# number of colours in the original palette.
z <- pal_palette(
  Egypt = c("#DD5129", "#0F7BA2", "#43B284", "#FAB255"),
  Java = c("#663171", "#CF3A36", "#EA7428", "#E2998A", "#0C7156")
)
pal_ramp(z, n = 5)

```

penguin_palettes	<i>Palmer penguins palettes</i>
------------------	---------------------------------

Description

Palettes inspired by the Palmer penguins.

Usage

```
penguin_palettes
```

Format

```
penguin_palettes:
```

An object of class `palettes_palette` with 6 colour palettes. Use `names(penguin_palettes)` to return all palette names.

Author(s)

Allison Horst

Source

<https://github.com/allisonhorst/palmerpenguins/>

See Also

[pal_palette\(\)](#), [pal_colour\(\)](#)

Examples

```
# Get all palettes by name.
names(penguin_palettes)

# Plot all palettes.
plot(penguin_palettes)
```

performance_palettes *Performance palettes*

Description

A colourblind accessible palette for visualizing performance.

Usage

```
performance_palettes
```

Format

```
performance_palettes:
```

An object of class `palettes_palette` with 1 colour palettes. All colours in each palette are distinguishable with deuteranopia, protanopia, and tritanopia. Use `names(performance_palettes)` to return all palette names.

Source

<https://github.com/easystats/performance/>

See Also

[pal_palette\(\)](#), [pal_colour\(\)](#)

Examples

```
# Get all palettes by name.  
names(performance_palettes)  
  
# Plot all palettes.  
plot(performance_palettes)
```

`plot.palettes_colour` *Plot colour vectors and colour palettes*

Description

Plot colour vectors and colour palettes as swatches.

Usage

```
## S3 method for class 'palettes_colour'
plot(
  x,
  n = NULL,
  direction = 1,
  space = "lab",
  interpolate = c("linear", "spline"),
  ...
)

## S3 method for class 'palettes_palette'
plot(
  x,
  n = NULL,
  direction = 1,
  space = "lab",
  interpolate = c("linear", "spline"),
  ...
)
```

Arguments

x	An object of class palettes_palette or palettes_colour .
n	An integer specifying the number of colours to return.
direction	Sets the order of colours in the scale. If 1, the default, colours are ordered from first to last. If -1, the order of colours is reversed.
space	The colour space to interpolate in. One of: "cmy", "hsl", "hsb", "hsv", "lab" (CIE L*ab), "hunterlab" (Hunter Lab), "oklab", "lch" (CIE Lch(ab) / polar-LAB), "luv", "rgb" (sRGB), "xyz", "yxy" (CIE xyY), "hcl" (CIE Lch(uv) / polarLuv), or "oklch" (Polar form of oklab).
interpolate	The interpolation method. Either "linear" (default) or "spline".
...	Not used.

Value

A [ggplot2](#) object. The output has the following properties:

- For objects of class [palettes_colour](#): A plot of colour swatches.
- For objects of class [palettes_palette](#) with one palette: A plot of colour swatches with the palette name spanned across the swatches.
- For objects of class [palettes_palette](#) with more than one palette: A faceted plot of colour swatches with palette names as facet titles.

See Also

[pal_colour\(\)](#), [pal_palette\(\)](#), [pal_ramp\(\)](#)

Examples

```
# Objects of class `palettes_colour` are plotted as swatches.
x <- pal_colour(c("darkslateblue", "cornflowerblue", "slategray1"))
plot(x)

# Objects of class `palettes_palette` with one palette are plotted with
# the palette name spanned across the swatches.
y <- pal_palette(Egypt = c("#DD5129", "#0F7BA2", "#43B284", "#FAB255"))
plot(y)

# Objects of class `palettes_palette` with multiple palettes are faceted.
z <- pal_palette(
  Egypt = c("#DD5129", "#0F7BA2", "#43B284", "#FAB255"),
  Java  = c("#663171", "#CF3A36", "#EA7428", "#E2998A", "#0C7156")
)
plot(z)

# Colours can also be interpolated.
plot(x, n = 5)
plot(y, n = 5)
plot(z, n = 5)
```

pnw_palettes

*Pacific Northwest palettes***Description**

Palettes inspired by Jake Lawlor's photos of the dreamiest, most colourful, PNW-iest places in Washington State.

Usage

```
pnw_palettes
```

Format

```
pnw_palettes:
```

An object of class `palettes_palette` with 14 colour palettes. Use `names(pnw_palettes)` to return all palette names.

Author(s)

Jake Lawlor

Source

<https://github.com/jakelawlor/PNWColors>

See Also

[pal_palette\(\)](#), [pal_colour\(\)](#), [PNWColors::pnw_palette\(\)](#)

Examples

```
# Get all palettes by name.
names(pnw_palettes)

# Plot all palettes.
plot(pnw_palettes)
```

scale_colour_palette_d

Colour scales from colour vectors and colour palettes

Description

Create discrete, continuous, and binned colour scales from colour vectors and colour palettes.

Usage

```
scale_colour_palette_d(palette, direction = 1, ...)

scale_fill_palette_d(palette, direction = 1, ...)

scale_colour_palette_c(palette, direction = 1, ..., na.value = NA)

scale_fill_palette_c(palette, direction = 1, ..., na.value = NA)

scale_colour_palette_b(palette, direction = 1, ...)

scale_fill_palette_b(palette, direction = 1, ...)
```

Arguments

palette	An object of class palettes_palette or palettes_colour .
direction	Sets the order of colours in the scale. If 1, the default, colours are ordered from first to last. If -1, the order of colours is reversed.
...	Other arguments passed on to ggplot2::discrete_scale() , ggplot2::continuous_scale() , or ggplot2::binned_scale() to control name, limits, breaks, labels and so forth.
na.value	Missing values will be replaced with this value.

Value

A scale function that controls the mapping between data and colour or fill aesthetics in a [ggplot2](#) plot.

Examples

```
library(ggplot2)

# Use palette_d with discrete data
discrete_pal <- pal_colour(c("#663171", "#EA7428", "#0C7156"))
ggplot(mtcars, aes(wt, mpg, colour = as.factor(cyl))) +
  geom_point(size = 3) +
  scale_colour_palette_d(discrete_pal)

# Use palette_c with continuous data
continuous_pal <- pal_colour(c("#3C0D03", "#E67424", "#F5C34D"))
ggplot(mtcars, aes(wt, mpg, colour = mpg)) +
  geom_point(size = 3) +
  scale_colour_palette_c(continuous_pal)

# Use palette_b to bin continuous data before mapping
ggplot(mtcars, aes(wt, mpg, colour = mpg)) +
  geom_point(size = 3) +
  scale_colour_palette_b(continuous_pal)
```

viridis_palettes

Viridis palettes

Description

Colourblind accessible palettes that are perceptually uniform in both colour and black-and-white.

Usage

```
viridis_palettes
```

Format

viridis_palettes:

An object of class `palettes_palette` with 8 colour palettes. All colours in each palette are distinguishable with deuteranopia, protanopia, and tritanopia. Use `names(viridis_palettes)` to return all palette names.

Author(s)

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Source

<https://github.com/sjmgarnier/viridisLite>

See Also

[pal_palette\(\)](#), [pal_colour\(\)](#), [viridisLite::viridis\(\)](#)

Examples

```
# Get all palettes by name.  
names(viridis_palettes)  
  
# Plot all palettes.  
plot(viridis_palettes, n = 256)
```

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