

Package: poispalette (via r-universe)

October 19, 2026

Title Poisson Palettes

Version 0.0.1

Description An R package for Poisson Consulting colour palettes.

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URL <https://github.com/poissonconsulting/poispalette>

BugReports <https://github.com/poissonconsulting/poispalette/issues>

Depends R (>= 4.1)

Imports chk, ggplot2 (>= 3.5.0), rlang, scales

Suggests colorspace, covr, grDevices, knitr, rmarkdown, testthat

VignetteBuilder knitr

Config/Needs/website poissonconsulting/poissontemplate

Config/roxygen2/version 8.0.0.9000

Encoding UTF-8

Language en-US

LazyData true

Roxygen list(markdown = TRUE)

Repository <https://poissonconsulting.r-universe.dev>

Date/Publication 2026-10-19 01:42:12 UTC

RemoteUrl <https://github.com/poissonconsulting/poispalette>

RemoteRef HEAD

RemoteSha 2ca5f1a1cd67c82ca836731fcbf767c0d0c03241

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Description

lines

Usage

lines

Format

An example data set for plotting

Examples

lines

points	points
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Description

points

Usage

points

Format

An example data set for plotting

Examples

points

pois_cols	<i>poisson colours</i>
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Description

poisson colours

Usage

```
pois_cols(colours = NULL)
```

Arguments

colours Character names of Poisson colours

Value

A named character vector of hex colours

Examples

```
pois_cols()
pois_cols(c("red", "yellow"))
```

pois_pal	<i>poisson palettes</i>
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Description

poisson palettes

Usage

```
pois_pal(palette = NULL)
```

Arguments

palette Character names of Poisson palettes. One of 'discrete', 'hot', 'cool'.

Value

A named character vector of hex colours

Examples

```
pois_pal()
pois_pal("cool")
```

pois_pal_custom	<i>Return function to subset a user provided colour palette</i>
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Description

Return function to subset a user provided colour palette

Usage

```
pois_pal_custom(palette, order = NULL, reverse = FALSE)
```

Arguments

palette	Character vector of hex colours.
order	A numeric or character vector indicating the order of colours in the palette. Can be a subset.
reverse	Boolean indicating whether the palette should be reversed

Value

A function that takes the number of colours required and returns a character vector of that many hex colours from the palette.

Examples

```
pois_pal_custom(c("#1E6091", "#D9ED92", "#99D98C"))(3)
```

pois_pal_disc	<i>Return function to subset poisson colour palette</i>
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Description

Return function to subset poisson colour palette

Usage

```
pois_pal_disc(palette = "discrete", order = NULL, reverse = FALSE)
```

Arguments

palette	Character name of palette. See pois_pal() for palette options.
order	A numeric or character vector indicating the order of colours in the palette. Can be a subset.
reverse	Boolean indicating whether the palette should be reversed

Value

A function that takes the number of colours required and returns a character vector of that many hex colours from the palette.

Examples

```
pois_pal_disc("discrete")(3)
```

pois_pal_grad	<i>Return interpolated color gradient for a continuous poisson colour palette</i>
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Description

Return interpolated color gradient for a continuous poisson colour palette

Usage

```
pois_pal_grad(
  palette = "cool",
  reverse = FALSE,
  n_steps = 256,
  n_col = getOption("poispalette.n_col", NULL)
)
```

Arguments

palette	Character name of palette in pois_palettes, See pois_pal() for palette options.
reverse	Boolean indicating whether the palette should be reversed
n_steps	Number of steps in gradient
n_col	Number of colours to subset from the palette (optional)

Value

A character vector of n_steps interpolated hex colours.

Examples

```
pois_pal_grad("cool", n_steps = 4)
```

`scale_colour_disc_poisson`*discrete colour scale constructor for poisson colours*

Description

discrete colour scale constructor for poisson colours

Usage

```
scale_colour_disc_poisson(  
  ...,  
  palette = getOption("poispalette.colours", "discrete"),  
  order = NULL,  
  reverse = FALSE  
)
```

Arguments

<code>...</code>	Additional arguments passed to <code>discrete_scale()</code>
<code>palette</code>	Character name of palette in <code>pois_palettes</code>
<code>order</code>	A numeric or character vector indicating the order of colours in the palette. Can be a subset.
<code>reverse</code>	Boolean indicating whether the palette should be reversed

Value

A ggplot2 discrete scale.

Examples

```
library(ggplot2)  
ggplot(points, aes(RandomX, RandomY, colour = ID)) +  
  geom_point() +  
  scale_colour_disc_poisson()
```

`scale_colour_grad_poisson`*gradient colour scale constructor for poisson colours*

Description

gradient colour scale constructor for poisson colours

Usage

```
scale_colour_grad_poisson(
  ...,
  palette = getOption("poispalette.gradient", "cool"),
  reverse = FALSE,
  n_steps = 256,
  n_col = getOption("poispalette.n_col", NULL)
)
```

Arguments

...	Additional arguments passed to scale_color_gradientn()
palette	Character name of palette in pois_palettes, or selection of colour names from pois_cols
reverse	Boolean indicating whether the palette should be reversed
n_steps	Number of steps in gradient
n_col	Number of colours to subset from the palette (optional)

Value

A ggplot2 continuous scale.

Examples

```
library(ggplot2)
ggplot(points, aes(X, Y, colour = RandomX)) +
  geom_point() +
  scale_colour_grad_poisson(palette = "cool")
```

scale_fill_disc_poisson

discrete fill scale constructor for poisson colours

Description

discrete fill scale constructor for poisson colours

Usage

```
scale_fill_disc_poisson(
  ...,
  palette = getOption("poispalette.colours", "discrete"),
  order = NULL,
  reverse = FALSE
)
```

Arguments

...	Additional arguments passed to discrete_scale()
palette	Character name of palette in pois_palettes
order	A numeric or character vector indicating the order of colours in the palette. Can be a subset.
reverse	Boolean indicating whether the palette should be reversed

Value

A ggplot2 discrete scale.

Examples

```
library(ggplot2)
ggplot(points, aes(RandomX, RandomY, fill = ID)) +
  geom_point(shape = 21) +
  scale_fill_disc_poisson()
```

scale_fill_grad_poisson

Gradient fill scale constructor for poisson colours

Description

Gradient fill scale constructor for poisson colours

Usage

```
scale_fill_grad_poisson(
  ...,
  palette = getOption("poispalette.gradient", "cool"),
  reverse = FALSE,
  n_steps = 256,
  n_col = getOption("poispalette.n_col", NULL)
)
```

Arguments

...	Additional arguments passed to scale_color_gradientn()
palette	Character name of palette in pois_palettes, or selection of colour names from pois_cols
reverse	Boolean indicating whether the palette should be reversed
n_steps	Number of steps in gradient
n_col	Number of colours to subset from the palette (optional)

Value

A ggplot2 continuous scale.

Examples

```
library(ggplot2)
ggplot(points, aes(X, Y, fill = RandomX)) +
  geom_point(shape = 21) +
  scale_fill_grad_poisson(palette = "cool")
```

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