

Package ‘birdcolors’

April 3, 2026

Type Package

Title Create Palettes from the Colors of the World's Birds

Date 2026-03-30

Version 1.0.1

Depends R (>= 4.0)

Description Create attractive palettes based on the colors of the world's birds. Palettes are composed of 2 to 9 colors, with options to expand palettes via interpolation. Compatible with the package 'ggplot2' and base R graphics.

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Encoding UTF-8

Imports ggplot2

RoxygenNote 7.3.3

NeedsCompilation no

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Repository CRAN

Date/Publication 2026-04-03 08:20:20 UTC

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bird_colors *Extract a bird's color palette*

Description

Extract a bird's color palette

Usage

```
bird_colors(  
  palette_name = "Scarlet Macaw",  
  ncols = NA,  
  reverse = FALSE,  
  expand_palette = FALSE  
)
```

Arguments

palette_name Common name of a bird
ncols Number of colors to extract
reverse Should the palette order be flipped?
expand_palette Should the palette be expanded to more colors?

Value

Extracted bird colors.

Examples

```
bird_colors()  
bird_colors("Scarlet Macaw")  
bird_colors("Scarlet_Macaw",7)  
bird_colors("Scarlet_Macaw",4,reverse=TRUE)  
bird_colors("Bluethroat",4,reverse=TRUE,expand_palette=15)
```

bird_menu *Return available bird color palettes*

Description

Return available bird color palettes

Usage

```
bird_menu(all_or_rec = "all")
```

Arguments

all_or_rec Option "all" returns all available palettes, "rec" returns recommended

Value

Returns data.frame of available birds and color number

Examples

```
bird_menu()
```

bird_palette_visualizer

Return pictures of available bird color palettes

Description

Return pictures of available bird color palettes

Usage

```
bird_palette_visualizer(all_or_rec = "all", pdf_plot = FALSE, path)
```

Arguments

all_or_rec Option "all" returns all available palettes, "rec" returns recommended

pdf_plot Create a pdf of available palettes. Default is to send directly to plots

path Directory in which to save pdf if pdf_plot=TRUE. Must be specified by the user.

Value

Creates pdf of all available birds or rec birds

Examples

```
bird_palette_visualizer("all")
```

bird_search	<i>Search for available bird color palettes</i>
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Description

Search for available bird color palettes

Usage

```
bird_search(sp_name = "Penguin")
```

Arguments

sp_name Provide full or partial name of bird you are looking for

Value

Returns character string of available birds

Examples

```
bird_search("Hummingbird")
```

leaderboard	<i>Return leaders in contributing bird color palettes</i>
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Description

Return leaders in contributing bird color palettes

Usage

```
leaderboard()
```

Value

Returns data.frame of leaderboard in contributing bird color palettes

Examples

```
leaderboard()
```

scale_color_bird	<i>Create ggplot color gradient</i>
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Description

Create ggplot color gradient

Usage

```
scale_color_bird(  
  bird_cols,  
  midpoint = NA,  
  name = ggplot2::waiver(),  
  lim = NULL,  
  na.value = "grey50",  
  guide = "colourbar"  
)
```

Arguments

bird_cols	Bird colors extracted via bird_colors function
midpoint	Midpoint of diverging color palette, only for 3-color palettes
name	Legend label
lim	Limits for color ramp
na.value	Color when value is outside range
guide	Legend type, see ggplot2::scale_fill_gradient for details

Value

ggplot-friendly color gradient

Examples

```
scale_color_bird(bird_colors())
```

scale_fill_bird *Create ggplot fill gradient*

Description

Create ggplot fill gradient

Usage

```
scale_fill_bird(  
  bird_cols,  
  midpoint = NA,  
  name = ggplot2::waiver(),  
  lim = NULL,  
  na.value = "grey50",  
  guide = "colourbar"  
)
```

Arguments

bird_cols	Bird colors extracted via bird_colors function
midpoint	Midpoint of diverging color palette, only for 3-color palettes
name	Legend label
lim	Limits for color ramp
na.value	Color when value is outside range
guide	Legend type, see ggplot2::scale_fill_gradient for details

Value

ggplot-friendly fill gradient

Examples

```
scale_fill_bird(bird_colors())
```

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