

Package: painbow (via r-universe)

October 10, 2024

Type Package

Title Use XKCD's ``Painbow" Colormap and Dataset in ggplot2

Version 1.0.1

Author Steve Haroz

Maintainer Steve Haroz <painbow@steveharoz.com>

Description XKCD described a supposedly ``bad" colormap that it called a ``Painbow" (see <<https://xkcd.com/2537/>>). But simple tests demonstrate that under some circumstances, the colormap can perform very well, and people can find information that is difficult to detect with the ggplot2 default and even supposedly ``good" colormaps like viridis. This library let's you use the Painbow in your own ggplot graphs.

License MIT + file LICENSE

Encoding UTF-8

LazyData true

Imports ggplot2

Suggests knitr, patchwork, spelling, rmarkdown

Depends R (>= 2.10)

RoxygenNote 7.1.2

Language en-US

BugReports <https://github.com/steveharoz/painbow/issues/new>

URL <https://github.com/steveharoz/painbow>

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

RemoteUrl <https://github.com/steveharoz/painbow>

RemoteRef HEAD

RemoteSha 044109f1356cf56ef4db159f2be35fbb006998c8

Contents

rainbow_colors	2
rainbow_data	2
scale_colour_rainbow	3

Index	4
--------------	----------

rainbow_colors	<i>An array of colors from XKCD's rainbow comic</i>
----------------	---

Description

This set of 192 colors is the Rainbow. The colors were extracted using the pixels from the color bar on the right side of the comic.

Usage

```
rainbow_colors
```

Format

An array with 192 hex color strings.

Source

<https://xkcd.com/2537/>

rainbow_data	<i>A 2D heatmap from XKCD's rainbow comic</i>
--------------	---

Description

A 2D heatmap from XKCD's rainbow comic

Usage

```
rainbow_data
```

Format

A data frame with 58,425 rows and 3 variables:

x x-axis position

y y-axis position

value A value from 0 to 1

Source

<https://xkcd.com/2537/>

scale_colour_painbow *Painbow colormap*

Description

Use XKCD's "Painbow" colormap

Usage

```
scale_color_painbow(...)  
scale_colour_painbow(...)  
scale_fill_painbow(...)
```

Arguments

... Any arguments are passed to `ggplot2::scale_fill_gradientn()`

Details

The colors were extracted directly from the colorscale in XKCD's image (<https://xkcd.com/2537/>).

Author(s)

Steve Haroz

See Also

See `ggplot2::scale_fill_gradientn()` for additional arguments.

Examples

```
# You can use it for continuous data  
library(ggplot2)  
ggplot(faithfuld) +  
  aes(waiting, eruptions, fill = density) +  
  geom_tile() +  
  scale_fill_painbow()
```

Index

* datasets

rainbow_colors, 2

rainbow_data, 2

ggplot2: scale_fill_gradientn(), 3

rainbow_colors, 2

rainbow_data, 2

scale_color_rainbow

(scale_colour_rainbow), 3

scale_colour_rainbow, 3

scale_fill_rainbow

(scale_colour_rainbow), 3