Package 'painbow'

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Type Package
Title Use XKCD's ``Painbow" Colormap in ggplot2
Version 1.0.1
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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 in formation 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
<pre>URL https://github.com/steveharoz/painbow</pre>
NeedsCompilation no
Repository CRAN
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R topics documented:
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painbow_colors

An array of colors from XKCD's painbow comic

Description

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

Usage

```
painbow_colors
```

Format

An array with 192 hex color strings.

Source

```
https://xkcd.com/2537/
```

painbow_data

A 2D heatmap from XKCD's painbow comic

Description

A 2D heatmap from XKCD's painbow comic

Usage

```
painbow_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/

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```
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()
```

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