Package 'harrypotter'

July 22, 2025

Type Package

Title Palettes Generated from All ``Harry Potter'' Movies

Version 2.1.1

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Description Implementation of characteristic palettes inspired in the Wizarding World and the Harry Potter movie franchise.

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Encoding UTF-8

LazyData TRUE

Depends R (>= 2.10)

Suggests hexbin (>= 1.27.0), testthat (>= 2.1.0)

URL https://github.com/aljrico/harrypotter

BugReports https://github.com/aljrico/harrypotter/issues

Imports ggplot2 (>= 1.0.1), gridExtra

RoxygenNote 7.0.2

NeedsCompilation no

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Repository CRAN

Date/Publication 2020-03-05 05:40:06 UTC

Contents

hp *Harry Potter Colour Map.*

Description

This function creates a vector of n equally spaced colors along the 'HP colour map' of your selection

Usage

```
hp(
  n,
  alpha = 1,
  begin = 0,
  end = 1,
  direction = 1,
  option = "Always",
  house = NULL
)

hp_pal(
  alpha = 1,
  begin = 0,
  end = 1,
  direction = 1,
  option = "Always",
  house = NULL
)

harrypotter(
  n,
  alpha = 1,
  begin = 0,
  end = 1,
  direction = 1,
  option = "Always",
  house = NULL
)
```

Arguments

n	The number of colors ($\geq$ 1) to be in the palette.
alpha	The alpha transparency, a number in [0,1], see argument alpha in hsv.
begin	The (corrected) hue in [0,1] at which the hp colormap begins.
end	The (corrected) hue in [0,1] at which the hp colormap ends.
direction	Sets the order of colors in the scale. If 1, the default, colors are ordered from darkest to lightest. If -1, the order of colors is reversed.

option	A character string indicating the colourmap from a option to use. Four houses are available: "Gryffindor", "Slytherin", "Ravenclaw" and "Hufflepuff".
house	Depcreated. Use 'option' instead.

Details

Semi-transparent colors ($0 < alpha < 1$) are supported only on some devices: see rgb.

Value

hp returns a character vector, cv, of color hex codes. This can be used either to create a user-defined color palette for subsequent graphics by palette(cv), a col = specification in graphics functions or in par.

Author(s)

Alejandro Jiménez Rico <aljrico@gmail.com>, Personal Blog

Examples

```
library(ggplot2)
library(hexbin)

dat <- data.frame(x = rnorm(1e4), y = rnorm(1e4))
ggplot(dat, aes(x = x, y = y)) +
  geom_hex() +
  coord_fixed() +
  scale_fill_gradientn(colours = hp(128, option = 'Always'))

pal <- hp(256, option = "Ravenclaw")
image(volcano, col = pal)
```

---

hp.map *Original 'Harry Potter' colour map*

Description

A dataset containing some colour palettes inspired on the Harry Potter Universe

Usage

```
hp.map
```

Format

A data frame containing all the colours used in the palette:

- V1: Red value
- V2: Green value
- V3: Blue value
- option: It is intended to be a general option for choosing the specific colour palette.

---

hp_palettes *Available Palettes.*

Description

This list contains all the available palettes in the 'harrypotter' package.

Usage

```
hp_palettes
```

Format

A list containing all palettes color codes.

---

scale_color_hp *Harry Potter colour scales*

Description

Uses the Harry Potter color scale.

Usage

```
scale_color_hp(
  option = "Always",
  ...,
  alpha = 1,
  begin = 0,
  end = 1,
  direction = 1,
  discrete = FALSE,
  house = NULL
)

scale_colour_hp(
  option = "Always",
```

```
  ...,
  alpha = 1,
  begin = 0,
  end = 1,
  direction = 1,
  discrete = FALSE,
  house = NULL
)

scale_colour_hp_d(
  option = "Always",
  ...,
  alpha = 1,
  begin = 0,
  end = 1,
  direction = 1
)

scale_color_hp_d(
  option = "Always",
  ...,
  alpha = 1,
  begin = 0,
  end = 1,
  direction = 1
)

scale_fill_hp_d(
  option = "Always",
  ...,
  alpha = 1,
  begin = 0,
  end = 1,
  direction = 1
)

scale_fill_hp(
  option = "Always",
  ...,
  alpha = 1,
  begin = 0,
  end = 1,
  direction = 1,
  discrete = FALSE,
  house = NULL
)
```

Arguments

option	A character string indicating the colourmap to use. Four houses are available: "Gryffindor", "Slytherin", "Ravenclaw" and "Hufflepuff".
...	parameters to discrete_scale or scale_fill_gradientn
alpha	pass through parameter to hp
begin	The (corrected) hue in [0,1] at which the hp colormap begins.
end	The (corrected) hue in [0,1] at which the hp colormap ends.
direction	Sets the order of colors in the scale. If 1, the default, colors are as output by hp_pal. If -1, the order of colors is reversed.
discrete	generate a discrete palette? (default: FALSE - generate continuous palette)
house	A character string indicating the colourmap from a option to use. This parameter is deprectaed, 'option' should be used instead. Four houses are available: "Gryffindor", "Slytherin", "Ravenclaw" and "Hufflepuff".

Details

For discrete == FALSE (the default) all other arguments are as to scale_fill_gradientn or scale_color_gradientn. Otherwise the function will return a discrete_scale with the plot-computed number of colors.

Author(s)

Alejandro Jiménez Rico <aljrico@gmail.com>

Examples

```
library(ggplot2)



ggplot(mtcars, aes(factor(cyl), fill=factor(vs))) +
geom_bar() +
scale_fill_hp(discrete = TRUE, option = "Ravenclaw")

ggplot(mtcars, aes(factor(gear), fill=factor(carb))) +
geom_bar() +
scale_fill_hp(discrete = TRUE, option = "Slytherin")

ggplot(mtcars, aes(x = mpg, y = disp, colour = hp)) +
geom_point(size = 2) +
scale_colour_hp(option = "Gryffindor")
```

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