

Package ‘harrypotter’

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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/aljrigo/harrypotter>

BugReports <https://github.com/aljrigo/harrypotter/issues>

Imports ggplot2 (>= 1.0.1), gridExtra

RoxygenNote 7.0.2

NeedsCompilation no

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Repository CRAN

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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 (≥ 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	Deprecated. 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 <aljrigo@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	<i>Available Palettes.</i>
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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	<i>Harry Potter colour scales</i>
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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 <code>discrete_scale</code> or <code>scale_fill_gradientn</code>
alpha	pass through parameter to <code>hp</code>
begin	The (corrected) hue in [0,1] at which the <code>hp</code> colormap begins.
end	The (corrected) hue in [0,1] at which the <code>hp</code> colormap ends.
direction	Sets the order of colors in the scale. If 1, the default, colors are as output by <code>hp_pal</code> . 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 <code>option</code> to use. This parameter is deprecated, '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 <aljrigo@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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