

Package ‘harrypotter’

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Type Package

Title Palettes Generated from All ``Harry Potter" Movies

Version 2.1.0

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Description Implementation of the characteristic palette of the houses of Hogwarts School of magic, present in all Harry Potter movies.

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Encoding UTF-8

LazyData TRUE

Depends R (>= 2.10)

Suggests hexbin (>= 1.27.0), testthat

URL <https://github.com/aljrigo/harrypotter>

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

Imports ggplot2 (>= 1.0.1), gridExtra

RoxygenNote 6.1.1

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	A character string indicating the colourmap from a option to use. This parameter is deprecated, 'option' should be used instead. Four houses are available: "Gryffindor", "Slytherin", "Ravenclaw" and "Hufflepuff".

Details

Here are the color scales:



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

Available Palettes.

Description

This function outputs a vector containing the names of all the available palettes in the 'harrypotter' package.

Usage

```
hp_palettes()
```

Value

hp_palettes returns a character vector with the names of the palettes available to use.

Author(s)

Alejandro Jiménez Rico <aljrigo@gmail.com>

Examples

```
hp_palettes()
```

scale_color_hp *Harry Potter colour scales*

Description

Uses the Harry Potter color scale.

Usage

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

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

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

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

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

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

Arguments

...	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)
option	A character string indicating the colourmap to use. Four houses are available: "Gryffindor", "Slytherin", "Ravenclaw" and "Hufflepuff".
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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