# Package: harrypotter (via r-universe)

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**Type** Package

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

**Version** 2.1.2

**Maintainer** Alejandro Jimenez Rico <aljrico@gmail.com>

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

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** TRUE

**Depends** R (>= 3.5.0)

**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)

**RoxygenNote** 7.3.3

**Roxygen** list(markdown = TRUE)

**Repository** https://aljrico.r-universe.dev

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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 ($\geq 1$) 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 to use. Case, spaces and underscores are ignored. See names(hp_palettes) for the available options. |
| 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 <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_hp *Harry Potter colour scales*

---

### Description

Uses the Harry Potter color scale.

### Usage

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

scale_color_hp(
  option = "Always",
```

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

scale_fill_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,
  aesthetics = "colour"
)

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

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

```
)
```

## Arguments

| | |
|---|---|
| option | A character string indicating the colourmap to use. See `names(hp_palettes)` for the available options. |
| ... | 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 | Deprecated. Use 'option' instead. |
| aesthetics | Character string or vector of character strings listing the name(s) of the aesthetic(s) that this scale works with. |

## 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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