Package 'ggokabeito'

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Title 'Okabe-Ito' Scales for 'ggplot2' and 'ggraph'
Version 0.1.0
Description Discrete scales for the colorblind-friendly 'Okabe-Ito' palette, including 'color', 'fill', and 'edge_colour'. 'ggokabeito' provides 'ggplot2' and 'ggraph' scales to easily use the 'Okabe-Ito' palette in your data visualizations.
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BugReports https://github.com/malcolmbarrett/ggokabeito/issues
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palette_okabe_ito

Okabe-Ito Palette

Description

palette_okabe_ito() is a wrapper around palette.colors() that returns the Okabe-Ito palette in R 4.0.0 or greater. palette_okabe_ito() returns an unnamed vector of colors for better use with ggplot2. Additionally, black is the last color returned by palette_okabe_ito() when 9 colors are needed instead of the first, as in palette.colors().

Usage

```
palette_okabe_ito(order = 1:9, alpha = NULL, recycle = FALSE)
```

Arguments

order A numeric vector, the order of the colors

alpha an alpha-transparency level in the range [0,1] (0 means transparent and 1 means

opaque).

recycle logical indicating what happens in case n > length(palette(.)). By default

(recycle = FALSE), the result is as for n = NULL, but with a warning.

Value

A character vector of hex codes

Examples

```
palette_okabe_ito()
palette_okabe_ito(order = c(2, 3, 5), alpha = 0.9)
```

scale_okabe_ito

Okabe-Ito Scales for ggplot2 and ggraph

Description

Discrete scales for the colorblind-friendly Okabe-Ito palette, including color, fill, and edge_colour. See palette_okabe_ito for details.

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Usage

```
scale_okabe_ito(aesthetics, order = 1:9, alpha = 1, ...)
scale_colour_okabe_ito(aesthetics = "colour", order = 1:9, alpha = NULL, ...)
scale_color_okabe_ito(aesthetics = "colour", order = 1:9, alpha = NULL, ...)
scale_fill_okabe_ito(aesthetics = "fill", order = 1:9, alpha = NULL, ...)
scale_edge_colour_okabe_ito(
 aesthetics = "edge_colour",
 order = 1:9,
 alpha = NULL,
)
scale_edge_color_okabe_ito(
 aesthetics = "edge_colour",
 order = 1:9,
 alpha = NULL,
)
```

Arguments

. . .

aesthetics The names of the aesthetics that this scale works with. order A numeric vector, the order of the colors alpha an alpha-transparency level in the range [0,1] (0 means transparent and 1 means opaque). Additional arguments passed to ggplot2::discrete_scale()

Value

A ggplot or ggraph scale

Examples

```
library(ggplot2)
ggplot(mpg, aes(cty, hwy, color = class)) +
 geom_point() +
 scale_color_okabe_ito()
ggplot(mpg, aes(cty, hwy, color = factor(cyl))) +
 geom_point(alpha = 0.7) +
 scale_color_okabe_ito(name = "Cylinders", alpha = .9)
ggplot(mpg, aes(hwy, color = class, fill = class)) +
 geom_density() +
```

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```
scale_fill_okabe_ito(name = "Class", alpha = .9) +
scale_color_okabe_ito(name = "Class")
```

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