

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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URL <https://github.com/malcolmbarrett/ggokabeito>,
<https://malcolmbarrett.github.io/ggokabeito/>

BugReports <https://github.com/malcolmbarrett/ggokabeito/issues>

Depends R (>= 4.0.0)

Imports ggplot2, grDevices

Suggests covr, ggraph, igraph, spelling, testthat (>= 3.0.0), vdiffr

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NeedsCompilation no

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palette_okabe_ito	<i>Okabe-Ito Palette</i>
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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

<code>order</code>	A numeric vector, the order of the colors
<code>alpha</code>	an alpha-transparency level in the range [0,1] (0 means transparent and 1 means opaque).
<code>recycle</code>	logical indicating what happens in case <code>n > length(palette(.))</code> . By default (<code>recycle = FALSE</code>), the result is as for <code>n = NULL</code> , 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	<i>Okabe-Ito Scales for ggplot2 and ggraph</i>
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Description

Discrete scales for the colorblind-friendly Okabe-Ito palette, including `color`, `fill`, and `edge_colour`. See [palette_okabe_ito](#) for details.

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() +

```

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

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