

# 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), vdiff

**Config/testthat/edition** 3

**Encoding** UTF-8

**Language** en-US

**RoxygenNote** 7.1.2

**NeedsCompilation** no

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**Repository** CRAN

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palette\_okabe\_ito      *Okabe-Ito Palette*

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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

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 $n > \text{length}(\text{palette}(\cdot))$ . By default (recycle = FALSE), the result is as for $n = \text{NULL}$ , 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)
```

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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.

**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 <code>ggplot2::discrete_scale()</code>

**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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