

# Package ‘ggfocus’

May 8, 2026

**Type** Package

**Title** Scales that Focus Specific Levels in your ggplot()

**Version** 1.0.1

**BugReports** <https://github.com/Freguglia/ggfocus/issues>

**URL** <https://github.com/Freguglia/ggfocus>

**Description** A 'ggplot2' extension that provides tools for automatically creating scales to focus on subgroups of the data plotted without losing other information.

**License** GPL-3

**Encoding** UTF-8

**RoxygenNote** 7.3.2

**Depends** R (>= 4.1.0), ggplot2

**Imports** dplyr, rlang, RColorBrewer

**Suggests** knitr, rmarkdown, maps, ggrepel, testthat (>= 3.0.0)

**VignetteBuilder** knitr

**Config/testthat/edition** 3

**NeedsCompilation** no

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**Repository** CRAN

**Date/Publication** 2025-09-02 20:50:19 UTC

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scale\_alpha\_focus      *Focus scales for 'ggplot' objects*

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### Description

Scale that focus on specific levels.

### Usage

```
scale_alpha_focus(focus_levels, alpha_focus = 1, alpha_other = 0.2)
```

```
scale_color_focus(
  focus_levels,
  color_focus = NULL,
  color_other = "gray",
  palette_focus = "Set1"
)
```

```
scale_fill_focus(
  focus_levels,
  color_focus = NULL,
  color_other = "gray",
  palette_focus = "Set1"
)
```

```
scale_linetype_focus(focus_levels, linetype_focus = 1, linetype_other = 3)
```

```
scale_shape_focus(focus_levels, shape_focus = 8, shape_other = 1)
```

```
scale_size_focus(focus_levels, size_focus = 3, size_other = 1)
```

### Arguments

focus_levels	character vector with levels to focus on.
alpha_focus	'alpha' value for focused levels. Defaults to 1.
alpha_other	'alpha' value for other levels. Defaults to 0.05.
color_focus	color(s) for focused levels (a single value or a vector with the same length as the number of highlighted levels).
color_other	color for other levels.
palette_focus	If 'color_focus' is not specified, provide a palette from RColorBrewer to pick colors.
linetype_focus	vector of 'linetype' value(s) for focused levels with length 1 or equal to 'focus_levels'. Defaults to 1.
linetype_other	'linetype' value for other levels. Defaults to 3.
shape_focus	'shape' value for focused levels. Defaults to 8.

shape\_other 'shape' value for other levels. Defaults to 1.  
size\_focus 'size' value for focused levels. Defaults to 3.  
size\_other 'size' value for other levels. Defaults to 1.

**Note**

Use `RColorBrewer::display.brewer.all()` to see the palettes available.

**Examples**

```
ggplot(iris, aes(x = Petal.Length, y = Sepal.Length, alpha = Species)) +  
  geom_point() +  
  scale_alpha_focus(focus_levels = "versicolor")  
  
ggplot(iris, aes(x = Petal.Length, y = Sepal.Length, color = Species)) +  
  geom_point() +  
  scale_color_focus(focus_levels = "setosa", color_focus = "red")  
  
ggplot(iris, aes(x = Petal.Length, y = Sepal.Length, color = Species)) +  
  geom_point() +  
  scale_color_focus(focus_levels = c("setosa", "virginica"), color_focus = c("red", "blue"))  
  
ggplot(mtcars, aes(x = wt, y = mpg, color = rownames(mtcars))) +  
  geom_point() +  
  scale_color_focus(focus_levels = c("Mazda RX4", "Merc 230"), palette_focus = "Set2")  
  
ggplot(iris, aes(x = Petal.Length, group = Species, fill = Species)) +  
  geom_histogram() +  
  scale_fill_focus(focus_levels = "versicolor", color_focus = "red")  
  
ggplot(iris, aes(x = Petal.Length, y = Sepal.Length, shape = Species)) +  
  geom_point() +  
  scale_shape_focus(focus_levels = "versicolor")  
  
ggplot(iris, aes(x = Petal.Length, y = Sepal.Length, size = Species)) +  
  geom_point() +  
  scale_size_focus(focus_levels = "versicolor")
```

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