

# Package ‘ggfocus’

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**Type** Package

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

**Version** 1.0.0

**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

**LazyData** true

**RoxygenNote** 7.0.2

**Depends** ggplot2

**Imports** magrittr, dplyr, rlang, RColorBrewer

**Suggests** knitr, rmarkdown, maps, ggrepel

**VignetteBuilder** knitr

**NeedsCompilation** no

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**Repository** CRAN

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`ggfocus`*(Deprecated) Sets focus scales to an existing 'ggplot' object*

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### Description

'`ggfocus()`' is deprecated. Add focus scales with '`scale_color_focus()`', '`scale_fill_focus()`', '`scale_alpha_focus()`', ... instead.

Creates a 'ggplot' object with focus scales from another 'ggplot' object.

### Usage

```
ggfocus(  
  p,  
  var,  
  focus_levels,  
  focus_aes = c("color", "alpha", "fill"),  
  color_focus = NULL,  
  color_other = "black",  
  alpha_focus = 1,  
  alpha_other = 0.05  
)
```

### Arguments

<code>p</code>	a 'ggplot' object.
<code>var</code>	Sets.
<code>focus_levels</code>	levels to be highlighted.
<code>focus_aes</code>	list of aesthetics used to highlight. "color", "alpha" and "fill" are available.
<code>color_focus</code>	vector of colors (or a single color) for focused levels.
<code>color_other</code>	color for non-focused levels.
<code>alpha_focus</code> , <code>alpha_other</code>	alpha value for focused and non-focused levels.

### Value

a ggplot object with focusing scales.

### Author(s)

Victor Freguglia

### Examples

```
library(ggplot2)  
p <- ggplot(iris, aes(x=Sepal.Length, y=Petal.Length)) + geom_point()  
ggfocus(p, Species, "versicolor")
```

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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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