

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

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

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

Value

a ggplot object with focusing scales.

Author(s)

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Examples

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

scale_alpha_focus *Focus scales for 'ggplot' objects*

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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