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
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Depends ggplot2
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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

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

```r
ggplot(iris, aes(x = Petal.Length, y = Sepal.Length, alpha = Species)) +
  geom_point() +
  scale_alpha_focus(focus_levels = "versicolor")
```

```r
ggplot(iris, aes(x = Petal.Length, y = Sepal.Length, color = Species)) +
  geom_point() +
  scale_color_focus(focus_levels = "setosa", color_focus = "red")
```

```r
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"))
```

```r
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")
```

```r
ggplot(iris,aes(x = Petal.Length, group = Species, fill = Species)) +
  geom_histogram() +
  scale_fill_focus(focus_levels = "versicolor", color_focus = "red")
```

```r
ggplot(iris,aes(x = Petal.Length, y = Sepal.Length, shape = Species)) +
  geom_point() +
  scale_shape_focus(focus_levels = "versicolor")
```

```r
ggplot(iris,aes(x = Petal.Length, y = Sepal.Length, size = Species)) +
  geom_point() +
  scale_size_focus(focus_levels = "versicolor")
```
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