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

```r
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

```r
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**

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

```r
color_focus = NULL,
color_other = "gray",
palette_focus = "Set1"
)
```

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

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

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

```r
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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