Package ‘ggScatRidges’

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Imports ggplot2, cowplot, ggpubr, ggridges, viridis, hrbrthemes
Description The function combines a scatter plot with ridgelines to better visualise the distribution between sample groups. The plot is created with 'ggplot2'.
License GPL-3
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BugReports https://github.com/matbou85/ggScatRidges/issues
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# ggScatRidges

Scatter Plot Combine with Ridgelines

**Description**

`ggScatRidges` is a simple function combining a scatter plot generated in `ggplot2` to a ridgeline plot from `ggridges` to visualise the disparities of the data points. This helps visualising the distribution of different groups in the data.

**Usage**

```r
ggScatRidges(
  x,
  y = NULL,
  xlab = NULL,
  ylab = NULL,
  title = NULL,
  xlim = NULL,
  ylim = NULL,
  group = NULL,
  color = "lancet",
  ridges = TRUE,
  size = 15,
  draw = TRUE
)
```

**Arguments**

- **x**  
  As input data. If a dataframe was provided, the dataframe should contain no less than three columns. If no dataframe was supplied, a x vector should be set as an input. The vector should contain numerical values.

- **y**  
  As input data. If no dataframe was provided, a y vector should be set as an input along with a x vector. The vector should contain numerical values.

- **xlab**  
  To give a title for the xlab can be given here.

- **ylab**  
  To give a title for the ylab can be given here.

- **title**  
  To give a title for the plot can be given here.

- **xlim**  
  To set scale limits on the xaxis.

- **ylim**  
  To set scale limits on the yaxis.

- **group**  
  The user should provide here the grouping of the rows if a dataframe was provided, otherwise a vector.

- **color**  
  The user can choose from `ggpubr::get_palette`. Default = "lancet".

- **ridges**  
  The user can choose to plot, or not, the ridgelines. Default = TRUE.

- **size**  
  The overall size of the text in the plot. Default = 15.

- **draw**  
  If the user wants to directly draw the plot. Default = TRUE.
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Value

A ggplot object if draw set to ‘TRUE’ otherwise a grob table is returned but set to invisible.

Examples

# The following example is based on the iris dataset:

## Example 1

```r
ggScatRidges(x = iris$Sepal.Length, y = iris$Sepal.Width, group = iris$Species,
              color = "lancet", ridges = TRUE, title = "plot iris",
```

## Example 2

```r
iris2 <- iris[,c(1,2,5)] ## The 1st column will be used as 'x', 2nd as 'y', and the 3rd as 'group'.
ggScatRidges(x = iris2,
             color = "lancet", ridges = TRUE, title = "plot iris",
```
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