Package 'radarBoxplot'

October 14, 2022

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Title Implementation of the Radar-Boxplot	
Version 1.0.5	
Description Creates the radar-boxplot, a plot that was created by the author during his Ph.D. in forest resources. The radar-boxplot is a visualization feature suited for multivariate classification/clustering. It provides an intuitive deep understanding of the data.	
Suggests ggplot2	
Depends R (>= 3.5)	
License MIT + file LICENSE	
Encoding UTF-8	
LazyData true	
RoxygenNote 7.1.2	
<pre>URL https://github.com/caiohamamura/radarBoxplot-R,</pre>	
https://radarboxplot.r-forge.r-project.org/	
BugReports https://github.com/caiohamamura/radarBoxplot-R/issues	
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R topics documented:	
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radarBoxplot

Function to plot the radar-boxplot

Description

Function to plot the radar-boxplot

Usage

```
radarBoxplot(x, ...)
## S3 method for class 'formula'
radarBoxplot(x, data, ...)
## Default S3 method:
radarBoxplot(
 х,
 у,
  IQR = 1.5,
  use.ggplot2 = FALSE,
 mfrow = NA,
 oma = c(5, 4, 0, 0) + 0.1,
 mar = c(0, 0, 1, 1) + 0.1,
  innerPolygon = list(),
  outerPolygon = list(),
  innerBorder = list(),
  outerBorder = list(),
 medianLine = list(),
 outlierPoints = list(),
  nTicks = 4,
  ticksArgs = list(),
  axisArgs = list(),
  labelsArgs = list(),
  angleOffset = NA,
)
```

Arguments

```
    a data frame or matrix of attributes or a formula describing the attributes for the class
    parameter to allow the usage of S3 methods
    data dataset for fomula variant for which formula was defined
    a response vector
```

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numeric. The factor to multiply the IQR to define the outlier threshold. Default

-	1.5
use.ggplot2	if ggplot2 are available it will use ggplot for plotting: Default FALSE
mfrow	mfrow argument for defining the subplots nrows and ncols: Default will calculate the minimum square
oma	outer margins of the subplots: Default $c(5,4,0,0) + 0.1$
mar	margins of the subplots: Default $c(0,0,1,1) + 0.1$
innerPolygon	a list of optional arguments to override Q2-Q3 'graphics::polygon()' style: Default list() $ \\$
outerPolygon	a list of optional arguments to override the outer (range) 'graphics::polygon()' default style: Default list()
innerBorder	a list of optional arguments to override the inner border 'graphics::lines()' default style: Default list()
outerBorder	a list of optional arguments to override the outer border 'graphics::lines()' default style: Default list()
medianLine	a list of optional arguments to override the median line 'graphics::lines()' default style: Default list()
outlierPoints	a list of optional arguments to override the outliers 'graphics::points()' default style: Default list()
nTicks	number of ticks for the radar chart: Default 4
ticksArgs	a list of optional arguments to override radar ticks 'graphics::lines()' default style: Default list()
axisArgs	a list of optional arguments to override radar axis 'graphics::lines()' default style: Default list()
labelsArgs	a list of optional arguments to override labels 'graphics::text()' default style: Default list()
angleOffset	offset for rotating the plots: Default will let the top free of axis to avoid its label

Examples

IQR

overlapping the title

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winequality_red

Red Wine Quality Dataset

Description

Related to red vinho verde wine samples, from the north of Portugal. The goal is to model wine quality based on physicochemical tests

Usage

```
winequality_red
```

Format

A data frame with 1599 rows and 12 variables:

Source

```
https://archive.ics.uci.edu/ml/datasets/wine+quality
```

References

P. Cortez, A. Cerdeira, F. Almeida, T. Matos and J. Reis. Modeling wine preferences by data mining from physicochemical properties. In Decision Support Systems, Elsevier, 47(4):547-553, 2009.

winequality_white

White Wine Quality Dataset

Description

Related to white vinho verde wine samples, from the north of Portugal. The goal is to model wine quality based on physicochemical tests

Usage

```
winequality_white
```

winequality_white 5

Format

A data frame with 4898 rows and 12 variables:

Source

https://archive.ics.uci.edu/ml/datasets/wine+quality

References

P. Cortez, A. Cerdeira, F. Almeida, T. Matos and J. Reis. Modeling wine preferences by data mining from physicochemical properties. In Decision Support Systems, Elsevier, 47(4):547-553, 2009.

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