

# Package ‘radarBoxplot’

May 17, 2019

**Title** Implementation of the Radar-Boxplot

**Version** 1.0.0

**Description** Creates the radar-boxplot, a plot that was created by the author during his doctoring 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** 6.1.1

**NeedsCompilation** no

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**Repository** CRAN

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radarBoxplot                      *Function to plot the radar-boxplot*

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### Description

Function to plot the radar-boxplot

### Usage

```
radarBoxplot(x, ...)

## S3 method for class 'formula'
radarBoxplot(x, data, ...)

## Default S3 method:
radarBoxplot(x, y, plot.median = FALSE,
  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

x	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
y	a response vector
plot.median	boolean value to flag if median should be plotted: Default FALSE
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 overlapping the title

### Examples

```
library(radarBoxplot)
data("winequality_red")

# Regular
radarBoxplot(quality ~ ., winequality_red)
```

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winequality_red	<i>Wine Quality Data Set</i>
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### 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.

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