Package 'radarchart'

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Title Radar Chart from 'Chart.js'

Version 0.3.1

Description Create interactive radar charts using the 'Chart.js' 'JavaScript' library and the 'htmlwidgets' package. 'Chart.js' <http://www.chartjs.org/> is a lightweight library that supports several types of simple chart using the 'HTML5' canvas element. This package provides an R interface specifically to the radar chart, sometimes called a spider chart, for visualising multivariate data.

Depends R (>= 3.1.2)

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LazyData true

URL https://github.com/mangothecat/radarchart

BugReports https://github.com/mangothecat/radarchart/issues

Imports htmlwidgets, htmltools, grDevices

RoxygenNote 5.0.1

Suggests testthat, knitr, rmarkdown, tidyr, shiny

VignetteBuilder knitr

NeedsCompilation no

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Repository CRAN

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R topics documented:

`chartJSRadar` *Make a ChartJS Radar Plot*

Description

R bindings to the radar plot in the chartJS library

Usage

```
chartJSRadar(scores, labs, width = NULL, height = NULL, main = NULL,
  maxScale = NULL, scaleStepWidth = NULL, scaleStartValue = 0,
  responsive = TRUE, labelSize = 18, showLegend = TRUE, addDots = TRUE,
  colMatrix = NULL, polyAlpha = 0.2, lineAlpha = 0.8,
  showToolTipLabel = TRUE, ...)
```

Arguments

`scores`	Data frame or named list of scores for each axis. If `labs` is not specified then labels are taken from the first column (or element).
`labs`	Labels for each axis. If left unspecified labels are taken from the scores data set. If set to NA then labels are left blank.
`width`	Width of output plot
`height`	Height of output plot
`main`	Character: Title to be displayed
`maxScale`	Max value on each axis
`scaleStepWidth`	Spacing between rings on radar
`scaleStartValue`	Value at the centre of the radar
`responsive`	Logical. whether or not the chart should be responsive and resize when the browser does
`labelSize`	Numeric. Point label font size in pixels
`showLegend`	Logical whether to show the legend
`addDots`	Logical. Whether to show a dot for each point
`colMatrix`	Numeric matrix of rgb colour values. If `NULL` defaults are used

polyAlpha	Alpha value for the fill of polygons
lineAlpha	Alpha value for the outlines
showToolTipLabel	Logical. If TRUE then data set labels are shown in the tooltip hover over
...	Extra options passed straight to chart.js. Names must match existing options http://www.chartjs.org/docs/#getting-started-global-chart-configuration

Examples

```
# Using the data frame interface
chartJSRadar(scores=skills)

# Or using a list interface
labs <- c("Communicator", "Data Wangler", "Programmer", "Technologist",  "Modeller", "Visualizer")

scores <- list("Rich" = c(9, 7, 4, 5, 3, 7),
 "Andy" = c(7, 6, 6, 2, 6, 9),
 "Aimee" = c(6, 5, 8, 4, 7, 6))

# Default settings
chartJSRadar(scores=scores, labs=labs)

# Fix the max score
chartJSRadar(scores=scores, labs=labs, maxScale=10)

# Fix max and spacing
chartJSRadar(scores=scores, labs=labs, maxScale=12, scaleStepWidth = 2)

# Change title and remove legend
chartJSRadar(scores=scores, labs=labs, main = "Data Science Radar", showLegend = FALSE)

# Add pass through settings for extra options
chartJSRadar(scores=scores, labs=labs, maxScale =10, scaleLineWidth=5)
```

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chartJSRadarOutput *Widget output function for use in Shiny*

Description

Widget output function for use in Shiny

Usage

```
chartJSRadarOutput(outputId, width = "450", height = "300")
```

Arguments

outputId	output variable to read from
width	Must be valid CSS unit
height	Must be valid CSS unit

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chartJSRadar_html *Tell htmltools where to output the chart*

Description

Tell htmltools where to output the chart

Usage

```
chartJSRadar_html(id, style, class, width, height, ...)
```

Arguments

id	The id of the target object
style	css stylings
class	class of the target
width	width of target
height	height of target
...	extra arguments currently unused

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colourMatrix *Check and prep the colour matrix*

Description

Check and prep the colour matrix

Usage

```
colourMatrix(colMatrix)
```

Arguments

colMatrix	A 3 x n matrix of integers between 0-255

Value

The checked and prepped matrix of the same size

Examples

```
radarchart:::colourMatrix(diag(255, nrow=3))
```

`renderChartJSRadar` *Widget render function for use in Shiny*

Description

Widget render function for use in Shiny

Usage

```
renderChartJSRadar(expr, env = parent.frame(), quoted = FALSE)
```

Arguments

`expr`	expression passed to shinyRenderWidget
`env`	environment in which to evaluate expression
`quoted`	Logical. Is expression quoted?

`runExampleApp` *Run an example Shiny app*

Description

The radarchart package contains a number of demo Shiny apps to illustrate how to use the plots. The code is in `inst/shiny-examples/` and running this function will allow quick access to the apps.

Usage

```
runExampleApp(example)
```

Arguments

`example`	the name of the example. Choose from "basic" or "options".

Examples

```
## Not run:
runExample("basic")

## End(Not run)
```

setRadarScale *Autoscale the radar plot*

Description

Autoscale the radar plot

Usage

```
setRadarScale(maxScale = NULL, scaleStepWidth = NULL, scaleStartValue = 0)
```

Arguments

maxScale	Numeric length 1. Desired max limit
scaleStepWidth	Numeric length 1. Spacing between rings
scaleStartValue	Numeric length 1. Value of the centre

Value

A list containing the scale options for chartjs

Examples

```
## Not run:
setRadarScale(15, 3)
setRadarScale(15, 5, 2)

## End(Not run)
```

skills *Skills in a team*

Description

A dataset containing the skills vectors for three people

Usage

```
skills
```

Format

A data frame with 6 rows and 4 columns

Label The axis label for chartJSRadar

Aimee Vector of skills for Aimee

Andy Vector of skills for Andy

Rich Vector of skills for Rich

Source

Simulated

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skillsByName *Rotated version of skills data*

Description

A dataset containing the skills vectors for three people but by row rather than column. This data set is used to show how to rotate the data into a format accepted by `chartJSRadar`.

Usage

```
skillsByName
```

Format

A data frame with 6 rows and 4 columns

Name Name of the team member

Communicator Their Communicator score: 0-10

Data Wangler Their Data Wangler score: 0-10

Modeller Their Modeller score: 0-10

Programmer Their Programmer score: 0-10

Technologist Their Technologist score: 0-10

Visualizer Their Visualizer score: 0-10

Source

Simulated

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