Package 'pacviz'

August 18, 2020

Title Pac-Man Residual Function

Version 1.0.0.0

Description A visualization technique in R for regression analysis results, specifically residual values, based on a restricted radial coordinate system. It provides a broad view perspective on the performance of regression models, and supports most model inputs. See the pacviz documentation page for more information: https://pharaohcola13.github.io/pacviz/book/.

License MIT + file LICENSE

Depends R (>= 3.3.3)

Imports circlize, graphics, plotrix, stats, utils

Suggests knitr, rmarkdown

VignetteBuilder knitr

Encoding UTF-8

LazyData true

RoxygenNote 7.1.1

R topics documented:

pacman *Pac-Man Residual Function*

Description

A visualization technique in R for regression analysis results, specifically residual values, based on a restricted radial coordinate system. It provides a broad view perspective on the performance of regression models, and supports most model inputs. See the pacviz documentation page for more information: https://pharaohcola13.github.io/pacviz/book/

Usage

```
pacman(
  x,
  y,
  title,
  unit,
  axis_label,
  model = lm(y ~ x, data = data.frame(x, y)),
  color1 = "gold",
  standardize = FALSE
)
```

Arguments

x, y	Numeric data
title	Figure title
unit	String to define units on the angular axis (For temperature measurements use 'degC' or 'degF')
axis_label	Angular axis label
model	An object for which the extraction of model residuals is meaningful.
color1	Color value as string or rgb
standardize	Boolean to standardize the residual value

Value

Pac-Man residual plot

Examples

```
# Generic Pac-Man residual
x <- rnorm(20, mean=0, sd=10)
y <- log(rnorm(20, mean=0, sd=10), base=exp(1))
pacman(x,y,'Example 1','units', 'Axis Label')

# Pac-Man residual using alternate color, residual standardization, and temperature units
```

```
x <- rnorm(20, mean=0, sd=10)
y <- log(rnorm(20, mean=0, sd=10), base=exp(1))
pacman(x,y, 'Example 2', 'degC', "Temperature", color1="lightblue", standardize=TRUE)
```

Index