Package 'pacviz'

August 17, 2020

	2	
Title Pac-Man Residual Fu	unction	
Version 1.0.0.0		
sis. The data will run	will create a Pac-Man residual plot for for regression analy- through a linear regression and plot the resulting factors of standard devia ary angular measurement.	-
Depends R (>= $3.3.3$)		
License MIT + file LICEN	ISE	
Encoding UTF-8		
LazyData true		
RoxygenNote 7.1.1		
Suggests knitr, rmarkdown	1	
VignetteBuilder knitr		
Imports plotrix, circlize, graphics, stats,		
R topics documen	ted:	
pacman		1
Index		3
pacman	Pac-Man Residual Function	_
		_

Description

This function will create a Pac-Man residual plot for for regression analysis. The Pac-Man residual takes the absolute value of the residual values and plots them radially against the domain mapped to angles ranging from 40 to 320 degrees.

2 pacman

Usage

```
pacman(
    x,
    y,
    title,
    unit,
    axis_label,
    model = lm(y ~ x, data = data.frame(x, y)),
    color1 = "Yellow",
    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)</pre>
```

Index

```
*Topic regression
pacman, 1
*Topic visualization
pacman, 1

pacman, 1
```