

Package ‘pacviz’

August 24, 2020

Title Pac-Man Residual Function

Version 1.0.0.0

Description TBA

License MIT + file LICENSE

Depends R (>= 3.3.3)

Imports circlize,
e1071,
graphics,
plotrix,
stats,
utils

Suggests knitr,
rmarkdown

VignetteBuilder knitr

Encoding UTF-8

LazyData true

RoxygenNote 7.1.1

R topics documented:

lsvm	1
pac.plot	2
pac.resid	3
svm.partition	4
Index	5

lsvm

Pac-Man SVM

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

```
lsvm(x, y, l, title, train_size = 0.7)
```

Arguments

x, y	Numeric data
l	Numeric labels data
title	Figure title
train_size	Fraction of total data that the SVM will train on

Value

Pac-Man SVM

pac.plot

Pac-Man SVM

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

```
pac.plot(x, y, title, xaxislabel, yaxislabel, xunits, yunits, color1 = "gold")
```

Arguments

x, y	Numeric data
title	Figure title
xaxislabel	Angular axis label
yaxislabel	Radial axis label
xunits	String to define units on the angular axis (For temperature measurements use 'degC' or 'degF')
yunits	String to define units on the radial axis (For temperature measurements use 'degC' or 'degF')
color1	Color value as string or rgb

Value

Pac-Man SVM

Examples

```
# Generic Pac-Man residual
data("cars")
pac.plot(cars$dist,cars$speed, 'Example 1', "Distance", "Speed", 'm', 'm/s')
```

`pac.resid`

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

```
pac.resid(
  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

svm.partition	<i>Pac-Man SVM</i>
---------------	--------------------

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

```
## S3 method for class 'partition'
svm(x, y, l, train_size)
```

Arguments

x, y	Numeric data
l	Numeric labels data
train_size	Fraction of total data that the SVM will train on

Value

Pac-Man SVM

Index

*Topic **machine-learning**

lsvm, [1](#)

pac.plot, [2](#)

svm.partition, [4](#)

*Topic **regression**

pac.resid, [3](#)

*Topic **visualization**

lsvm, [1](#)

pac.plot, [2](#)

pac.resid, [3](#)

svm.partition, [4](#)

lsvm, [1](#)

pac.plot, [2](#)

pac.resid, [3](#)

svm.partition, [4](#)