

# Package ‘predictoR’

February 17, 2023

**Title** Predictive Data Analysis System

**Version** 3.0.0

**Description** Perform a supervised data analysis on a database through a 'shiny' graphical interface. It includes methods such as K-Nearest Neighbors, Decision Trees, ADA Boosting, Extreme Gradient Boosting, Random Forest, Neural Networks, Deep Learning, Support Vector Machines and Bayesian Methods.

**License** GPL (>= 2)

**Imports** DT (>= 0.20), dplyr, golem (>= 0.3.1), loadR (>= 1.0.1), shiny (>= 1.7.1), rlang (>= 1.0.1), config (>= 0.3.1), xtable (>= 1.8-4), glmnet (>= 4.1-3), colourpicker (>= 1.1.1), traineR (>= 1.6.2), shinyjs (>= 2.1.0), xgboost (>= 1.5.0.2), rpart.plot (>= 3.1.0), echarts4r (>= 0.4.3), shinyAce (>= 0.4.1), htmltools (>= 0.5.2), shinydashboard (>= 0.7.2), shinycustomloader (>= 0.9.0), shinydashboardPlus (>= 2.0.3)

**Depends** R (>= 4.1)

**Encoding** UTF-8

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e_coeff_landa	<i>Coefficients and lambda</i>
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## Description

Plot the coefficients and selected lambda of a glmnet model.

## Usage

```
e_coeff_landa(model, category, sel.lambda = NULL, label = "Log Lambda")
```

## Arguments

model	a glmnet model.
category	a category of the variable to be predicted.
sel.lambda	the selected lambda.
label	a character specifying the title to use on selected lambda tooltip.

## Value

echarts4r plot

## Author(s)

Joseline Quiros <joseline.quiros@promidat.com>

## Examples

```
modelo <- trainer::train.glmnet(Species~., iris)
e_coeff_landa(modelo, 'setosa', log(modelo$lambda[1]))
```

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`e_global_gauge`*Gauge Plot*

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**Description**

Gauge Plot

**Usage**

```
e_global_gauge(  
  value = 100,  
  label = "Label",  
  color1 = "#B5E391",  
  color2 = "#90C468"  
)
```

**Arguments**

<code>value</code>	a number specifying the value of the graph.
<code>label</code>	a character specifying the title to use on legend.
<code>color1</code>	a color for the gauge.
<code>color2</code>	a shadowColor for the gauge.

**Value**

echarts4r plot

**Author(s)**

Joseline Quiros &lt;joseline.quiros@promidat.com&gt;

**Examples**

```
e_global_gauge(87, "Global Precision")
```

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e_JS	<i>Eval character vectors to JS code</i>
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**Description**

Eval character vectors to JS code

**Usage**

```
e_JS(...)
```

**Arguments**

... character vectors to evaluate

**Author(s)**

Joseline Quiros <joseline.quiros@promidat.com>

**Examples**

```
e_JS('5 * 3')
```

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e_posib_lambda	<i>Possible lambda</i>
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**Description**

Possible lambda

**Usage**

```
e_posib_lambda(  
  cv.glm,  
  labels = c("Valor Superior", "Valor Inferior", "lambda")  
)
```

**Arguments**

cv.glm a cv.glmnet model.  
labels a character vector of length 3 specifying the titles to use on legend.

**Value**

echarts4r plot

**Author(s)**

Joseline Quiros <joseline.quiros@promidat.com>

**Examples**

```
x      <- model.matrix(Species~., iris)[, -1]
y      <- iris[, 'Species']
cv.glm <- glmnet::cv.glmnet(x, y, standardize = TRUE, alpha = 1, family = 'multinomial')
e_posib_lambda(cv.glm)
```

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e\_rf\_error

*Error Evolution*

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**Description**

Error Evolution

**Usage**

```
e_rf_error(model, label = "Trees")
```

**Arguments**

model            a random forest model.  
label            a label plot.

**Value**

echarts4r plot

**Author(s)**

Joseline Quiros <joseline.quiros@promidat.com>

**Examples**

```
model <- trainR::train.randomForest(Species~., iris, mtry = 2, ntree = 20)
label <- "Trees"
e_rf_error(model, label)
```

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predictoR

*Predictive Data Analysis System*

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### Description

Perform a supervised data analysis on a database through a 'shiny' graphical interface. It includes methods such as K-Nearest Neighbors, Decision Trees, ADA Boosting, Extreme Gradient Boosting, Random Forest, Neural Networks, Deep Learning, Support Vector Machines and Bayesian Methods.

### Details

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### Author(s)

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run\_app

*Run the Shiny Application*

---

### Description

Run the Shiny Application

### Usage

```
run_app(...)
```

### Arguments

... A series of options to be used inside the app.

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