Package: loadeR (via r-universe)

October 12, 2024

Title Load Data for Analysis System

Version 1.1.7

Description Provides a framework to load text and excel files through a 'shiny' graphical interface. It allows renaming, transforming, ordering and removing variables. It includes basic exploratory methods such as the mean, median, mode, normality test, histogram and correlation.

License GPL (>=2)

Imports DT, caret, config, writexl, echarts4r, shinyAce, shinyjs, readxl, golem, rlang, htmltools, data.table, htmlwidgets, colourpicker, shinydashboard, shiny (>= 1.7.1), shinycustomloader, shinydashboardPlus (>= 2.0.0)

Depends R (>= 4.0)

Encoding UTF-8

URL https://promidat.website, https://github.com/PROMiDAT/loadeR

BugReports https://github.com/PROMiDAT/loadeR/issues

RoxygenNote 7.2.3

Language en-US

Repository https://promidat.r-universe.dev

RemoteUrl https://github.com/PROMiDAT/loadeR

RemoteRef HEAD

RemoteSha 064112b059f4c7c02026e81d58a436c9fe5d16f4

Contents

`carga.datos` *Load data from text file.*

Description

Load data from text file.

Usage

```
carga.datos(
  nombre.filas = TRUE,
  ruta = NULL,
  separador = ";",
  sep.decimal = ",",
```

```
  encabezado = TRUE,
  deleteNA = TRUE,
  preview = FALSE
)
```

Arguments

nombre.filas	a logical value indicating whether the file contains the names of the rows as its first column.
ruta	the name of the file which the data are to be read from.
separador	the field separator character.
sep.decimal	the character used in the file for decimal points.
encabezado	a logical value indicating whether the file contains the names of the variables as its first line.
deleteNA	a logical value indicating if rows with NA should be removed.
preview	a logical value indicating if only load the first 10 rows.

Value

A data.frame object with the information of a file.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

Examples

```
tf <- tempfile()
write.table(iris, tf, sep = ";", dec = ",", row.names = FALSE)
carga.datos(ruta = tf, nombre.filas = FALSE, preview = TRUE)
```

---

carga.datos.excel *Load data from excel.*

Description

Load data from excel.

Usage

```
carga.datos.excel(
  ruta,
  sheet = 1,
  header = TRUE,
  startRow = 0,
  startCol = 0,
  endRow = 0,
  endCol = 0,
  row_names = TRUE,
  deleteNA = TRUE,
  preview = FALSE
)
```

Arguments

ruta	the name of the file which the data are to be read from.
sheet	The name or index of the worksheet to read from.
header	a logical value indicating whether the file contains the names of the variables as its first line.
startRow	The index of the first row to read from. Defaults to 0 meaning that the start row is determined automatically.
startCol	The index of the first column to read from. Defaults to 0 meaning that the start column is determined automatically.
endRow	The index of the last row to read from. Defaults to 0 meaning that the end row is determined automatically.
endCol	The index of the last column to read from. Defaults to 0 meaning that the end column is determined automatically.
row_names	a logical value indicating whether the file contains the names of the rows as its first column.
deleteNA	a logical value indicating if rows with NA should be removed.
preview	a logical value indicating if only load the first 10 rows.

Value

A data.frame object with the information of a file on excel.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

Examples

```
tf <- tempfile()
writexl::write_xlsx(iris, paste0(tf, ".xlsx"), TRUE)
carga.datos.excel(ruta = paste0(tf, ".xlsx"), row_names = FALSE, preview = TRUE)
```

codigo.monokai *HTML for show code on shiny application.*

Description

HTML for show code on shiny application.

Usage

```
codigo.monokai(id, height)
```

Arguments

id	The input slot that will be used to access the value.
height	The height of the input, e.g. '400px', or '100vh'.

Value

An HTML element.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

Examples

```
codigo.monokai("id", "70vh")
```

datos.disyuntivos *Create disjunctive columns to a data.frame.*

Description

Create disjunctive columns to a data.frame.

Usage

```
datos.disyuntivos(data, var)
```

Arguments

data	a data.frame object.
var	the column name to apply disjunctive code.

Value

A data.frame object after apply disjunctive code.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

Examples

```
datos.disyuntivos(iris, "Species")
```

`devolver.disyuntivos` *Back disjunctive column to original.*

Description

Back disjunctive column to original.

Usage

```
devolver.disyuntivos(data, var)
```

Arguments

`data`	a data.frame object.
`var`	the column name that is disyunctive.

Value

A data.frame object before apply disjunctive code.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

Examples

```
r <- datos.disyuntivos(iris, "Species")
devolver.disyuntivos(r, "Species")
```

dfnormal *Data.frame with normal test values.*

Description

Data.frame with normal test values.

Usage

```
dfnormal(data)
```

Arguments

data	a data.frame object only with the numeric columns.

Value

A data.frame.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

Examples

```
dfnormal(iris[, -5])
```

e_cor *Correlation plot*

Description

Correlation plot

Usage

```
e_cor(x, colors = c("#FF5733", "#F8F5F5", "#2E86C1"))
```

Arguments

x	a data.frame with correlation values.
colors	a vector of lenght 3 with color values.

Value

echarts4r plot.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

Examples

```
p <- round(cor(iris[, -5]), 3)
e_cor(p)
```

---

e_histboxplot *Histogram + boxplot*

Description

Histogram + boxplot

Usage

```
e_histboxplot(
  data,
  var.name,
  colorBar = "steelblue",
  colorPoint = "red",
  titulos = c("Minimo", "Primer Cuartil", "Mediana", "Tercer Cuartil", "Maximo")
)
```

Arguments

data	a numeric column of a data.frame.
var.name	a character value specifying the name of the variable.
colorBar	a color for the bars.
colorPoint	a color for the points.
titulos	a character vector of length 5 specifying the titles to use on legend.

Value

echarts4r plot.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

Examples

```
e_histboxplot(iris$Sepal.Width, "Sepal.Width")
```

e_histnormal *Normal plot*

Description

Normal plot

Usage

```
e_histnormal(
  data,
  colorbar = "steelblue",
  colorline = "gray",
  nombres = c("Histograma", "Curva Normal")
)
```

Arguments

data	a numeric column of a data.frame.
colorbar	a color for the bars.
colorline	a color for the line.
nombres	a character vector of length 2 specifying the titles to use on legend.

Value

echarts4r plot.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

Examples

```
e_histnormal(iris$Sepal.Length)
```

e_qq *Qplot + Qline*

Description

Qplot + Qline

Usage

```
e_qq(data, colorpoint = "steelblue", colorline = "gray")
```

Arguments

data	a numeric column of a data.frame.
colorpoint	a color for the points.
colorline	a color for the line.

Value

echarts4r plot.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

Examples

```
e_qq(iris$Sepal.Length)
```

infoBoxPROMiDAT *Information box.*

Description

Information box.

Usage

```
infoBoxPROMiDAT(titulo, valor, icono)
```

Arguments

titulo	Title text.
valor	The value to display in the box. Usually a number or short text.
icono	An icon tag, created by icon.

Value

An HTML element.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

Examples

```
library(shiny)
infoBoxPROMiDAT("Title", "Value", icon("info"))
```

`labelInput` *Create a label that can be used to show text.*

Description

Create a label that can be used to show text.

Usage

```
labelInput(inputId, value = "")
```

Arguments

`inputId`	The input slot that will be used to access the value.
`value`	Initial value.

Value

An HTML element.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

Examples

```
labelInput("id", "data")
```

labels_loadeR *Returns a vector of keys to translate with tr.*

Description

Returns a vector of keys to translate with tr.

Usage

```
labels_loadeR()
```

Value

a vector of keys.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

Examples

```
labels_loadeR()
```

loadeR *Read Data System*

Description

Provides a framework to load text and excel files through a 'shiny' graphical interface. It allows renaming, transforming, ordering and removing variables. It includes basic exploratory methods such as the mean, median, mode, normality test, histogtram and correlation.

Details

Package:	loadeR
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Author(s)

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- Diego Jiménez Alvarado
- Joseline Quirós Mendez

---

menu.idioma *HTML for language menu.*

Description

HTML for language menu.

Usage

```
menu.idioma()
```

Value

An HTML element.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

Examples

```
menu.idioma()
```

---

mod_carga_datos_server *carga_datos Server Functions.*

Description

carga_datos Server Functions.

Usage

```
mod_carga_datos_server(
  id,
  updateData,
  modelos,
  codedioma,
  paquete = "predictoR"
)
```

Arguments

id	Internal parameters for shiny.
updateData	shiny reactive values.
modelos	shiny reactive values.
codedioma	shiny reactive values.
paquete	indicates if the data is going to be used for exploratory, predictive, or regression analysis.

Value

shiny server module.

Author(s)

Joseline Quiros <joseline.quiros@promidat.com>

---

mod_carga_datos_ui *carga_datos UI Function*

Description

carga_datos UI Function

Usage

```
mod_carga_datos_ui(id, title, paquete = "predictoR")
```

Arguments

id	Internal parameters for shiny.
title	Display title for tab.
paquete	indicates if the data is going to be used for exploratory, predictive, or regression analysis.

Value

shiny ui module.

Author(s)

Joseline Quiros <joseline.quiros@promidat.com>

---

mod_correlacion_server *correlacion Server Function*

Description

correlacion Server Function

Usage

```
mod_correlacion_server(id, updateData, codedioma)
```

Arguments

id	Internal parameters for shiny.
updateData	shiny reactive values.
codedioma	shiny reactive values.

Value

shiny server module.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

---

mod_correlacion_ui *correlacion UI Function*

Description

correlacion UI Function

Usage

```
mod_correlacion_ui(id)
```

Arguments

id	Internal parameters for shiny.

Value

shiny ui module.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

---

mod_dispersion_server *dispersion Server Function*

Description

dispersion Server Function

Usage

```
mod_dispersion_server(id, updateData, codedioma)
```

Arguments

id	Internal parameters for shiny.
updateData	shiny reactive values.
codedioma	shiny reactive values.

Value

shiny server module.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

mod_dispersion_ui *dispersion UI Function*

Description

dispersion UI Function

Usage

```
mod_dispersion_ui(id)
```

Arguments

id	Internal parameters for shiny.

Value

shiny ui module.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

mod_distribuciones_server *distribuciones Server Function*

Description

distribuciones Server Function

Usage

```
mod_distribuciones_server(id, updateData, codedioma)
```

Arguments

id	Internal parameters for shiny.
updateData	shiny reactive values.
codedioma	shiny reactive values.

Value

shiny server module.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

mod_distribuciones_ui *distribuciones UI Function*

Description

distribuciones UI Function

Usage

```
mod_distribuciones_ui(id)
```

Arguments

id	Internal parameters for shiny.

Value

shiny ui module.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

mod_normal_server *normal Server Function*

Description

normal Server Function

Usage

```
mod_normal_server(id, updateData, codedioma)
```

Arguments

id	Internal parameters for shiny.
updateData	shiny reactive values.
codedioma	shiny reactive values.

Value

shiny server module.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

mod_normal_ui *normal UI Function*

Description

normal UI Function

Usage

```
mod_normal_ui(id)
```

Arguments

id	Internal parameters for shiny.

Value

shiny ui module.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

mod_r_numerico_server *r_numerico Server Function*

Description

r_numerico Server Function

Usage

```
mod_r_numerico_server(id, updateData, codedioma)
```

Arguments

id	Internal parameters for shiny.
updateData	shiny reactive values.
codedioma	shiny reactive values.

Value

shiny server module.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

mod_r_numerico_ui *r_numerico UI Function*

Description

r_numerico UI Function

Usage

```
mod_r_numerico_ui(id)
```

Arguments

id	Internal parameters for shiny.

Value

shiny ui module.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

options.run *Creates a button to use in a options menu.*

Description

Creates a button to use in a options menu.

Usage

```
options.run(runid)
```

Arguments

runid	The input slot that will be used to access the value.

Value

An HTML element.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

Examples

```
options.run("id")
```

`run_app` *Run the Shiny Application*

Description

Run the Shiny Application

Usage

```
run_app(paquete = "predictoR", ...)
```

Arguments

`paquete`	indicates if the data is going to be used for exploratory, predictive, or regression analysis.
`...`	A series of options to be used inside the app.

Value

No return value, run a shiny application.

`tabBoxPrmdt` *Tabset panel with options menu.*

Description

Tabset panel with options menu.

Usage

```
tabBoxPrmdt(..., id = NULL, title = NULL, opciones = NULL, open = NULL)
```

Arguments

`...`	tabPanel() elements to include in the tabset.
`id`	If provided, you can use input$id in your server logic to determine which of the current tabs is active. The value will correspond to the value argument that is passed to tabPanel().
`title`	Text or input to add on the opposite side of the tabs.
`opciones`	list of html options to add on the footer of the tabset.
`open`	Class to assign first option, for example to start open.

Value

An HTML element.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

Examples

```
library(shiny)
tabBoxPrmdt(id = "id", title = "title", tabPanel("Tab1"))
```

---

tabsOptions *Options menu in footer for tabBoxPrmdt (tabsetPanel).*

Description

Options menu in footer for tabBoxPrmdt (tabsetPanel).

Usage

```
tabsOptions(
  botones = list(paste(labelInput("opts"), icon("gear"))),
  widths = 100,
  heights = 50,
  tabs.content = list(""),
  id = NULL
)
```

Arguments

botones	list of icons to each option of the menu. Minimum 1, maximum 5.
widths	vector of widths to each option of the menu. Minimum 1, maximum 5.
heights	vector of heights to each option of the menu. Minimum 1, maximum 5.
tabs.content	list of UI elements to include within each menu option. Minimum 1, maximum 5.
id	If provided, you can use input$id in your server logic to get the element.

Value

An HTML element.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

Examples

```
tabsOptions()
```

`tr` *Returns a translate text (user defined).*

Description

Returns a translate text (user defined).

Usage

```
tr(text, idioma = "es")
```

Arguments

`text`	text to translate.
`idioma`	language to use. For example: "en".

Value

a translate text.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

Examples

```
tr("data", "en")
```

`translation.loadeR` *Returns a list of sentences with their translation in different languages.*

Description

Returns a list of sentences with their translation in different languages.

Usage

```
translation.loadeR()
```

Value

a list of sentences with their translation in different languages.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

Examples

```
translation.loadeR()
```

`updateLabelInput` *Change the value of a label input on the client.*

Description

Change the value of a label input on the client.

Usage

```
updateLabelInput(session, labelid, value = NULL)
```

Arguments

`session`	The session object passed to function given to shinyServer. Default is getDefaultReactiveDomain().
`labelid`	The id of the input object.
`value`	Initial value.

Value

An HTML element.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

var.categoricas *Filter category variables of a data.frame.*

Description

Filter category variables of a data.frame.

Usage

```
var.categoricas(data)
```

Arguments

data	a data.frame object.

Value

A data.frame object only with its categoric variables.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

Examples

```
var.categoricas(iris)
```

var.numericas *Filter numeric variables of a data.frame.*

Description

Filter numeric variables of a data.frame.

Usage

```
var.numericas(data)
```

Arguments

data	a data.frame object.

Value

A data.frame object only with its numeric variables.

Author(s)

Diego Jimenez <diego.jimenez@promidat.com>

Examples

```
var.numericas(iris)
```

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