Package: vizsurvey (via r-universe)

May 15, 2026

Type Package

Title Visualisation And Analysis During a Survey Field

Version 0.2.1

Description vizsurvey is an R package designed to streamline the quality assessment of survey data by providing intuitive visual diagnostics through an interactive dashboard. vizsurvey is especially useful for institutions or researchers conducting large-scale surveys with multiple interviewers, enabling a fast and systematic overview of data quality over time.

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Encoding UTF-8

LazyData true

Imports cli, corrplot, data.table, dplyr, DT, ggplot2, gt, isotree, laeken, lubridate, magrittr, plotly, purrr, rlang, scales, shiny, shinydashboard, stats, summarytools, tibble, tidyr, tidyselect

RoxygenNote 7.3.2

Suggests knitr, rmarkdown, testthat (>= 3.0.0)

Config/testthat/edition 3

URL https://github.com/tdelc/vizsurvey, https://tdelc.github.io/vizsurvey/

BugReports https://github.com/tdelc/vizsurvey/issues

VignetteBuilder knitr

Depends R (>= 3.5)

Config/pak/sysreqs cmake make libmagick++-dev gsfonts libicu-dev libuv1-dev libxml2-dev libssl-dev libnode-dev zlib1g-dev

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

Date/Publication 2026-03-16 21:06:26 UTC

RemoteUrl https://github.com/tdelc/vizsurvey

RemoteRef HEAD

RemoteSha 4819081878999472533361a243a19474d5a70f230

Contents

`classify_df` *Classify all variable of a data.frame*

Description

Classify all variable of a data.frame

Usage

```
classify_df(df, threhold = 15)
```

Arguments

`df`	A data frame
`threhold`	Maximum number of modalities to classify variable as modal

Value

a data frame

Examples

```
classify_df(iris)
```

`correct_list_df` *corrections of each df of a list*

Description

corrections of each df of a list

Usage

```
correct_list_df(list_df)
```

Arguments

`list_df`	list of df

Value

list

`create_config` *Create a template of configuration file*

Description

Create a template of configuration file

Usage

```
create_config(
  folder_path,
  file_name = "config.txt",
  name_survey = NULL,
  vars_discretes = NULL,
  vars_continous = NULL,
  var_wave = NULL,
  var_zone = NULL,
  var_group = NULL
)
```

Arguments

folder_path	folder where create the file
file_name	Name of the config file (config.txt by default)
name_survey	Name of the survey (not used)
vars_discretes	(optional) preset discretes variables name (VAR1,VAR2,...)
vars_continous	(optional) preset continous variables name (VAR1,VAR2,...)
var_wave	(optional) variable name of wave
var_zone	(optional) variable name of zone
var_group	variable name of group

Examples

```
create_config(".") # creation of config.txt in working directory
```

---

create_df_stats *Create statistics from database*

Description

Create statistics from database

Usage

```
create_df_stats(df_, configs, var_calculs, zone_filter = NULL)
```

Arguments

df_	database
configs	configs
var_calculs	variable to create stats
zone_filter	(optional) zone modality to filter data

Value

df

create_eusilc_sim *Simulate EU-SILC dataset with injected errors*

Description

Simulate EU-SILC dataset with injected errors

Usage

```
create_eusilc_sim()
```

Value

data.frame from laeken::eusilc with ids and errors

Examples

```
# create_eusilc_sim()
```

create_fake_silc *Use PUF files for SILC example*

Description

Use PUF files for SILC example

Usage

```
create_fake_silc(
  vec_country = c("BE", "RO"),
  path_out = "inst/shiny-examples/complete/data/SILC/"
)
```

Arguments

vec_country	Vector of country to import
path_out	Path to export csv

Value

nothing, but creation of csv datasets

Examples

```
# create_fake_silc()
```

empty_as_na *Replace empty by na*

Description

Replace empty by na

Usage

```
empty_as_na(vec)
```

Arguments

vec	Vector of values

Value

Vector

Examples

```
airquality[which(is.na(airquality$Ozone)), "Ozone"] <- ""
empty_as_na(airquality$Ozone)
```

extract_config *extract a config from key (config from load_config)*

Description

extract a config from key (config from load_config)

Usage

```
extract_config(config, key_)
```

Arguments

config	df of configuration
key_	key to extract

Value

string

`folder_to_df` *tranform data from folder to config and df*

Description

tranform data from folder to config and df

Usage

```
folder_to_df(folder, file_pattern = "*.csv", file_config = "config.txt")
```

Arguments

`folder`	folder of databases
`file_pattern`	pattern of the databases (*.csv by default)
`file_config`	name of the configuration file (config.txt by default)

Value

list(df,configs)

Examples

```
## Not run:
folder_to_df("ESS10")

## End(Not run)
```

`heatmap_group` *Create a heatmap*

Description

Create a heatmap

Usage

```
heatmap_group(df_stats, threshold = 5, color = "red2")
```

Arguments

`df_stats`	data frame from prepa_stats function
`threshold`	threshold to show difference
`color`	color of the cells

Value

heatmap (ggplot)

Examples

```
library(laeken)
data(eusilc)

df_stats <- prepa_stats(eusilc, "db040")
heatmap_group(df_stats, 5)
```

---

is.integer64 *Check if value is integer64*

Description

Check if value is integer64

Usage

```
is.integer64(x)
```

Arguments

x	Value

Value

Boolean

Examples

```
is.integer64(c(1:100)) # FALSE
```

---

list_dist *List distribution of discrete variables*

Description

List distribution of discrete variables

Usage

```
list_dist(df, vars_vd)
```

Arguments

df	data.frame
vars_vd	vector of discrete variables

Value

list

Examples

```
list_dist(mtcars,c("cyl","vs","gear"))
```

---

load_config *load a config file for prepare data*

Description

load a config file for prepare data

Usage

```
load_config(file_path)
```

Arguments

file_path	path of the configuration file

Value

df

---

loop_stats *Loop of stats creation by zone*

Description

Loop of stats creation by zone

Usage

```
loop_stats(df, configs, var_calculs)
```

Arguments

df	database
configs	configs
var_calculs	variable to create stats

Value

df

`my_chisq_test` *Specific chisq test to NA and Other modality*

Description

Specific chisq test to NA and Other modality

Usage

```
my_chisq_test(x, varname, ldist)
```

Arguments

`x`	value to procede chisq test
`varname`	name of the variable
`ldist`	named list of expected probability

Value

chisq value

Examples

```
ldist <- list_dist(mtcars,c("cyl","gear"))
sub_mtcars <- subset(mtcars,vs == 1)
my_chisq_test(sub_mtcars$cyl,"cyl",ldist)
```

`prepa_stats` *Create a summarise of all the difference*

Description

Create a summarise of all the difference

Usage

```
prepa_stats(df, var_group, vars_vd = NULL, vars_vc = NULL)
```

Arguments

df	data frame for the summary
var_group	Name of group variable
vars_vd	(optional) Vector of discrete variables
vars_vc	(optional) Vector of continuous variables

Value

data frame

Examples

```
library(laeken)
data(eusilc)

info_vars <- classify_df(eusilc)
vars_vd <- info_vars[info_vars$type == "Modal", ]$variable
vars_vc <- info_vars[info_vars$type == "Continuous", ]$variable
prepa_stats(eusilc, "db040", vars_vd, vars_vc)
```

---

prepa_survey *Preparation of a survey*

Description

Preparation of a survey

Usage

```
prepa_survey(folder_path, file_pattern = "*.csv", file_config = "config.txt")
```

Arguments

folder_path	folder of survey
file_pattern	pattern of the databases (*.csv by default)
file_config	name of the configuration file (config.txt by default)

Value

NULL (creation of rds)

Examples

```
## Not run:
prepa_survey("shiny-examples/complete/ESS10")

## End(Not run)
```

prepa_surveys *Preparation of all surveys from a folder*

Description

Preparation of all surveys from a folder

Usage

```
prepa_surveys(
  folder_path,
  depth_folder = 1,
  file_pattern = "*.csv",
  file_config = "config.txt"
)
```

Arguments

folder_path	folder of the folders of survey
depth_folder	level of depth for the tree structure
file_pattern	pattern of the databases (*.csv by default)
file_config	name of the configuration file (config.txt by default)

Value

NULL (creation of rds)

Examples

```
## Not run:
prepa_surveys("inst/extdata/SILC/HFILE")

## End(Not run)
```

runExample *Shiny Example of vizsurvey*

Description

Shiny Example of vizsurvey

Usage

```
runExample()
```

Value

shinyapp

Examples

```
# runExample()
```

`runVizsurvey` *Shiny vizsurvey*

Description

Shiny vizsurvey

Usage

```
runVizsurvey()
```

Value

shinyapp

Examples

```
## Not run: runVizsurvey()
```

`runVizsurvey_from_file` *Shiny vizsurvey from a csv/tsv*

Description

Shiny vizsurvey from a csv/tsv

Usage

```
runVizsurvey_from_file(
  path,
  vars_discretes = NULL,
  vars_continous = NULL,
  var_wave = NULL,
  var_zone = NULL,
  var_group = NULL
)
```

Arguments

path	path of a data.frame (can be readed by fread)
vars_discretes	(optional) preset of discretes variables
vars_continous	(optional) preset of continous variables
var_wave	(optional) name of wave variable
var_zone	(optional) name of zone variable
var_group	(optional) name of group variable

Value

shinyapp

Examples

```
path <- "inst/extdata/SILC/HFILE/BE_2012h_EUSILC.csv"
## Not run: runVizsurvey_from_file(path,var_group = "NR_ITW",var_zone = "db040")
```

---

runVizsurvey_from_folder

Shiny vizsurvey with already prepared data

Description

Shiny vizsurvey with already prepared data

Usage

```
runVizsurvey_from_folder(link, data_rds_pattern = "global", depth_folder = 1)
```

Arguments

link	link to directory of data
data_rds_pattern	name of the rds file contains all the data
depth_folder	level of depth for the tree structure

Value

shinyapp

Examples

```
# We assume that config.txt, and prepa_surveys are already done here.
## Not run: runVizsurvey_from_folder("inst/extdata",depth_folder = 3)
```

runVizsurvey_from_r *Shiny vizsurvey from a R data.frame*

Description

Shiny vizsurvey from a R data.frame

Usage

```
runVizsurvey_from_r(
  df,
  vars_discretes = NULL,
  vars_continous = NULL,
  var_wave = NULL,
  var_zone = NULL,
  var_group = NULL
)
```

Arguments

df	data.frame
vars_discretes	(optional) preset of discretes variables
vars_continous	(optional) preset of continous variables
var_wave	(optional) name of wave variable
var_zone	(optional) name of zone variable
var_group	(optional) name of group variable

Value

shinyapp

Examples

```
library(laeken)
data(eusilc)
set.seed(123)
eusilc$NR_ITW <- paste(eusilc$db040,sample(1:5,nrow(eusilc),replace = TRUE),sep="-")
## Not run: runVizsurvey_from_r(eusilc,var_group = "NR_ITW",var_zone = "db040")
```

scale_IQR *Robust Scale of a varible with IQR*

Description

Robust Scale of a varible with IQR

Usage

```
scale_IQR(x)
```

Arguments

x	vector

Value

vector

Examples

```
head(scale_IQR(iris$Sepal.Length))
```

score_isoforest *calculate isoforest score from df*

Description

calculate isoforest score from df

Usage

```
score_isoforest(df)
```

Arguments

df	database

Value

vector

Examples

```
score_isoforest(iris[sapply(iris, is.numeric)])
```

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