Package 'radiant'

November 11, 2015

```
Title Business Analytics using R and Shiny
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Description A platform-independent browser-
      based interface for business analytics in R, based on the Shiny package.
Depends R (>= 3.2.0),
      magrittr (>= 1.5),
      ggplot2 (>= 1.0.0),
      lubridate (>= 1.3.3),
      tidyr (>= 0.3.1),
      dplyr (>= 0.4.3)
Imports DiagrammeR(>= 0.7),
      car (>= 2.0.22),
      MASS (>= 7.3),
      gridExtra (>= 2.0.0),
      AlgDesign (>= 1.1.7.3),
      psych (>= 1.4.8.11),
      GPArotation (>= 2014.11.1),
      wordcloud (>= 2.5),
      markdown (>= 0.7.4),
      knitr (>= 1.8),
      ggdendro (>= 0.1.17),
      broom (>= 0.3.7),
      pryr (>= 0.1),
      shiny (>= 0.12.2),
      shinyAce (>= 0.2.1),
      DT (>= 0.1.39),
      MathJaxR (>= 0.11),
      readr (>= 0.1.1),
      data.tree(>= 0.2.1),
      yaml(>= 2.1.13),
      scales(>= 0.2.5),
      curl(>= 0.9.1),
      stringr (>= 1.0)
Suggests rmarkdown (>= 0.4.2),
      devtools (>= 1.8.0),
      testthat (>= 0.10.0),
      covr (>= 1.2.0)
```

2 R topics documented:

URL https://github.com/vnijs/radiant, http://vnijs.github.io/radiant/

BugReports https://github.com/vnijs/radiant/issues

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LazyData true

R topics documented:

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6 as_distance

as	cha	ıract	er

Wrapper for as.character

Description

Wrapper for as.character

Usage

```
as_character(x)
```

Arguments

Х

Input vector

as_distance

Distance in kilometers or miles between two locations based on lat-long Function based on http://www.movable-type.co.uk/scripts/latlong.html. Uses the haversine formula

Description

Distance in kilometers or miles between two locations based on lat-long Function based on http://www.movable-type.co.uk/scripts/latlong.html. Uses the haversine formula

Usage

```
as_distance(lat1, long1, lat2, long2, unit = "km", R = c(km = 6371, miles = 3959)[[unit]])
```

Arguments

lat1	Latitude of location 1
long1	Longitude of location 1
lat2	Latitude of location 2
long2	Longitude of location 2
unit	Measure kilometers ("km", default) or miles ("miles")

R Radius of the earth

Value

Distance bewteen two points

```
as_distance(32.8245525,-117.0951632, 40.7033127,-73.979681, unit = "km") as_distance(32.8245525,-117.0951632, 40.7033127,-73.979681, unit = "miles")
```

as_dmy 7

as_dmy

Convert input in day-month-year format to date

Description

Convert input in day-month-year format to date

Usage

```
as_dmy(x)
```

Arguments

Х

Input variable

Value

Date variable of class Date

Examples

```
as_dmy("1-2-2014")
```

as_dmy_hm

Convert input in day-month-year-hour-minute format to date-time

Description

Convert input in day-month-year-hour-minute format to date-time

Usage

```
as_dmy_hm(x)
```

Arguments

Х

Input variable

Value

Date-time variable of class Date

```
as_mdy_hm("1-1-2014 12:15")
```

8 as_duration

as_dmy_hms	Convert input in day-month-year-hour-minute-second format to date- time

Description

Convert input in day-month-year-hour-minute-second format to date-time

Usage

```
as_dmy_hms(x)
```

Arguments

Х

Input variable

Value

Date-time variable of class Date

Examples

```
as_mdy_hms("1-1-2014 12:15:01")
```

as_duration

Wrapper for lubridate's as.duration function. Result converted to numeric

Description

Wrapper for lubridate's as.duration function. Result converted to numeric

Usage

```
as_duration(x)
```

Arguments

Х

Time difference

as_factor 9

as_factor

Wrapper for as.factor

Description

Wrapper for as.factor

Usage

```
as_factor(x)
```

Arguments

Χ

Input vector

as_hm

Convert input in hour-minute format to time

Description

Convert input in hour-minute format to time

Usage

```
as_hm(x)
```

Arguments

Х

Input variable

Value

Time variable of class Period

```
as_hm("12:45")
## Not run:
as_hm("12:45") %>% minute
## End(Not run)
```

10 as_integer

as_hms

Convert input in hour-minute-second format to time

Description

Convert input in hour-minute-second format to time

Usage

```
as_hms(x)
```

Arguments

Χ

Input variable

Value

Time variable of class Period

Examples

```
as_hms("12:45:00")
## Not run:
as_hms("12:45:00") %>% hour
as_hms("12:45:00") %>% second
## End(Not run)
```

as_integer

Convert variable to integer avoiding potential issues with factors

Description

Convert variable to integer avoiding potential issues with factors

Usage

```
as_integer(x)
```

Arguments

Х

Input variable

Value

Integer

```
as_integer(rnorm(10))
as_integer(letters)
as_integer(5:10 %>% as.factor)
as.integer(5:10 %>% as.factor)
```

as_mdy 11

as_mdy

Convert input in month-day-year format to date

Description

Convert input in month-day-year format to date

Usage

```
as_mdy(x)
```

Arguments

Х

Input variable

Details

Use as.character if x is a factor

Value

Date variable of class Date

Examples

```
as_mdy("2-1-2014")
## Not run:
as_mdy("2-1-2014") %>% month(label = TRUE)
as_mdy("2-1-2014") %>% week
as_mdy("2-1-2014") %>% wday(label = TRUE)
## End(Not run)
```

as_mdy_hm

Convert input in month-day-year-hour-minute format to date-time

Description

Convert input in month-day-year-hour-minute format to date-time

Usage

```
as_mdy_hm(x)
```

Arguments

Χ

Input variable

Value

Date-time variable of class Date

12 as_numeric

Examples

```
as_mdy_hm("1-1-2014 12:15")
```

as_mdy_hms

Convert input in month-day-year-hour-minute-second format to datetime

Description

Convert input in month-day-year-hour-minute-second format to date-time

Usage

```
as_mdy_hms(x)
```

Arguments

Х

Input variable

Value

Date-time variable of class Date

Examples

```
as_mdy_hms("1-1-2014 12:15:01")
```

as_numeric

Convert variable to numeric avoiding potential issues with factors

Description

Convert variable to numeric avoiding potential issues with factors

Usage

```
as_numeric(x)
```

Arguments

Х

Input variable

Value

Numeric

```
as_numeric(rnorm(10))
as_numeric(letters)
as_numeric(5:10 %>% as.factor)
as.numeric(5:10 %>% as.factor)
as_numeric(c("1","2"))
```

as_ymd 13

as_ymd

Convert input in year-month-day format to date

Description

Convert input in year-month-day format to date

Usage

```
as_ymd(x)
```

Arguments

Х

Input variable

Value

Date variable of class Date

Examples

```
as_ymd("2013-1-1")
```

as_ymd_hm

Convert input in year-month-day-hour-minute format to date-time

Description

Convert input in year-month-day-hour-minute format to date-time

Usage

```
as_ymd_hm(x)
```

Arguments

Χ

Input variable

Value

Date-time variable of class Date

```
as_ymd_hm("2014-1-1 12:15")
```

14 avengers

as_ymd_hms	Convert input in year-month-day-hour-minute-second format to date-
	time

Description

Convert input in year-month-day-hour-minute-second format to date-time

Usage

```
as_ymd_hms(x)
```

Arguments

Х

Input variable

Value

Date-time variable of class Date

Examples

```
as_ymd_hms("2014-1-1 12:15:01")
## Not run:
as_ymd_hms("2014-1-1 12:15:01") %>% as.Date
as_ymd_hms("2014-1-1 12:15:01") %>% month
as_ymd_hms("2014-1-1 12:15:01") %>% hour

## End(Not run)
```

avengers

Avengers

Description

Avengers

Usage

```
data(avengers)
```

Format

A data frame with 7 rows and 4 variables

Details

List of avengers. The dataset is used to illustrate data merging / joining. Description provided in attr(avengers, "description")

center 15

center Center

Description

Center

Usage

center(x)

Arguments

Х

Input variable

Value

If x is a numberic variable return x - mean(x)

changedata

Change data

Description

Change data

Usage

```
changedata(dataset, vars = c(), var_names = names(vars))
```

Arguments

dataset Name of the dataframe to change vars New variables to add to the data.frame

var_names Names for the new variables to add to the data.frame

Value

None

```
r_data <<- list()
r_data$dat <<- data.frame(a = 1:20)
changedata("dat",20:1, "b")
head(r_data$dat)
rm(r_data, envir = .GlobalEnv)</pre>
```

16 ci_label

city

City distances

Description

City distances

Usage

```
data(city)
```

Format

A data frame with 45 rows and 3 variables

Details

Distance in miles between nine cities in the USA. The dataset is used to illustrate multi-dimensional scaling (MDS). Description provided in attr(city, "description")

ci_label

Labels for confidence intervals

Description

Labels for confidence intervals

Usage

```
ci_label(alt, cl)
```

Arguments

```
alt Type of hypothesis ("two.sided","less","greater")
```

cl Confidence level

Value

A charater vector with labels for a confidence interval

```
ci_label("less",.95)
ci_label("two.sided",.95)
ci_label("greater",.9)
```

ci_perc 17

ci_perc	Values at confidence levels

Description

Values at confidence levels

Usage

```
ci_perc(dat, alt, cl)
```

Arguments

```
dat Data

alt Type of hypothesis ("two.sided","less","greater")

cl Confidence level
```

Value

A charater vector with labels for a confidence interval

Examples

```
ci_perc(0:100, "less",.95)
ci_perc(0:100, "greater",.95)
ci_perc(0:100, "two.sided",.80)
```

clean_loadings

Sort and clean loadings

Description

Sort and clean loadings

Usage

```
clean_loadings(floadings, cutoff = 0, fsort = FALSE, dec = 8)
```

Arguments

floadings Data frame with loadings

cutoff Show only loadings with (absolute) values above cutoff (default = 0)

fsort Sort factor loadings

dec Number of decimals to show

Details

See http://vnijs.github.io/radiant/marketing/full_factor.html for an example in Radiant

18 combinedata

Examples

```
result <- full_factor("diamonds",c("price","carat","table","x","y"))
clean_loadings(result$floadings, TRUE, .5, 2)</pre>
```

combinedata

Combine datasets using dplyr's bind and join functions

Description

Combine datasets using dplyr's bind and join functions

Usage

```
combinedata(dataset, cmb_dataset, by = "", type = "inner_join", name = "")
```

Arguments

dataset Dataset name (string). This can be a dataframe in the global environment or an

element in an r_data list from Radiant

cmb_dataset Dataset name (string) to combine with 'dataset'. This can be a dataframe in the

global environment or an element in an r_data list from Radiant

by Variables used to combine 'dataset' and 'cmb_dataset'

type The main bind and join types from the dplyr package are provided. **inner_join**

returns all rows from x with matching values in y, and all columns from x and y. If there are multiple matches between x and y, all match combinations are returned. **left_join** returns all rows from x, and all columns from x and y. If there are multiple matches between x and y, all match combinations are returned. **right_join** is equivalent to a left join for datasets y and x. **full_join** combines two datasets, keeping rows and columns that appear in either. **semi_join** returns all rows from x with matching values in y, keeping just columns from x. A semi join differs from an inner join because an inner join will return one row of x for each matching row of y, whereas a semi join will never duplicate rows of x. **anti_join** returns all rows from x without matching values in y, keeping only columns from x. **bind_rows** and **bind_cols** are also included, as are **intersect**, **union**, and **setdiff**. See http://vnijs.github.io/radiant/base/combine.

html for further details

name Name for the combined dataset

Details

```
See http://vnijs.github.io/radiant/base/combine.html for an example in Radiant
```

Value

If list 'r_data' exists the combined dataset is added as 'name'. Else the combined dataset will be returned as 'name'

compare_means 19

Examples

```
combinedata("titanic","titanic_pred",c("pclass","sex","age")) %>% head
titanic %>% combinedata("titanic_pred",c("pclass","sex","age")) %>% head
titanic %>% combinedata(titanic_pred,c("pclass","sex","age")) %>% head
avengers %>% combinedata(superheroes, type = "bind_cols")
combinedata("avengers", "superheroes", type = "bind_cols")
avengers %>% combinedata(superheroes, type = "bind_rows")
```

compare_means

Compare means for two or more variables

Description

Compare means for two or more variables

Usage

```
compare_means(dataset, var1, var2, samples = "independent",
  alternative = "two.sided", conf_lev = 0.95, comb = "",
  adjust = "none", test = "t", dec = 3, data_filter = "")
```

Arguments

dataset	Dataset name (string). This can be a dataframe in the global environment or an element in an r_data list from Radiant
var1	A numeric variable or factor selected for comparison
var2	One or more numeric variables for comparison. If var1 is a factor only one variable can be selected and the mean of this variable is compared across (factor) levels of va1r
samples	Are samples independent ("independent") or not ("paired")
alternative	The alternative hypothesis ("two.sided", "greater" or "less")
conf_lev	Span of the confidence interval
comb	Combinations to evaluate
adjust	Adjustment for multiple comparisons ("none" or "bonf" for Bonferroni)
test	T-test ("t") or Wilcox ("wilcox")
dec	Number of decimals to show
data_filter	Expression entered in, e.g., Data $>$ View to filter the dataset in Radiant. The expression should be a string (e.g., "price $>$ 10000")

Details

 $See \ http://vnijs.github.io/radiant/quant/compare_means.html \ for \ an \ example \ in \ Radiant$

Value

A list of all variables defined in the function as an object of class compare_means

20 compare_props

See Also

```
summary.compare_means to summarize results
plot.compare_means to plot results
```

Examples

```
result <- compare_means("diamonds","cut","price")
result <- diamonds %>% compare_means("cut","price")
```

compare_props

Compare proportions across groups

Description

Compare proportions across groups

Usage

```
compare_props(dataset, var1, var2, levs = "", alternative = "two.sided",
  conf_lev = 0.95, comb = "", adjust = "none", dec = 3,
  data_filter = "")
```

Arguments

dataset	Dataset name (string). This can be a dataframe in the global environment or an element in an r_data list from Radiant
var1	A grouping variable to split the data for comparisons
var2	The variable to calculate proportions for
levs	The factor level selected for the proportion comparison
alternative	The alternative hypothesis ("two.sided", "greater" or "less")
conf_lev	Span of the confidence interval
comb	Combinations to evaluate
adjust	Adjustment for multiple comparisons ("none" or "bonf" for Bonferroni)
dec	Number of decimals to show
data_filter	Expression entered in, e.g., Data > View to filter the dataset in Radiant. The

Details

See http://vnijs.github.io/radiant/quant/compare_props.html for an example in Radiant

expression should be a string (e.g., "price > 10000")

Value

A list of all variables defined in the function as an object of class compare_props

See Also

```
summary.compare_props to summarize results
plot.compare_props to plot results
```

computer 21

Examples

```
result <- compare_props("titanic", "pclass", "survived")
result <- titanic %>% compare_props("pclass", "survived")
```

computer

Perceptions of computer (re)sellers

Description

Perceptions of computer (re)sellers

Usage

```
data(computer)
```

Format

A data frame with 5 rows and 8 variables

Details

Perceptions of computer (re)sellers. The dataset is used to illustrate perceptual maps. Description provided in attr(computer, "description")

conjoint

Conjoint analysis

Description

Conjoint analysis

Usage

```
conjoint(dataset, dep_var, indep_var, reverse = FALSE, data_filter = "")
```

Arguments

dataset	Dataset name (string). This can be a dataframe in the global environment or an
	element in an r_data list from Radiant

dep_var The response variable (e.g., profile ratings) indep_var Explanatory variables in the regression

reverse Reverse the values of the response variable ('dep_var')

expression should be a string (e.g., "price > 10000")

Details

See http://vnijs.github.io/radiant/marketing/conjoint.html for an example in Radiant

22 conjoint_profiles

Value

A list with all variables defined in the function as an object of class conjoint

See Also

```
summary.conjoint to summarize results plot.conjoint to plot results
```

Examples

```
result <- conjoint("mp3", dep_var = "Rating", indep_var = "Memory:Shape")
result <- mp3 %>% conjoint(dep_var = "Rating", indep_var = "Memory:Shape")
```

conjoint_profiles

Create fractional factorial design for conjoint analysis

Description

Create fractional factorial design for conjoint analysis

Usage

```
conjoint_profiles(dataset)
```

Arguments

dataset

Dataset name (string). This can be a dataframe in the global environment or an element in an r_data list from Radiant

Details

```
See http://vnijs.github.io/radiant/marketing/conjoint_profiles.html for an example in Radiant
```

Value

A list with all variables defined in the function as an object of class conjoint_profiles

See Also

```
summary.conjoint_profiles to summarize results
```

copy_all 23

copy_all

Source all package functions

Description

Source all package functions

Usage

```
copy_all(.from)
```

Arguments

.from

The package to pull the function from

Details

Equivalent of source with local=TRUE for all package functions. Adapted from functions by smbache, author of the import package. See https://github.com/smbache/import/issues/4 for a discussion. This function will be depracated when (if) it is included in https://github.com/smbache/import

Examples

```
copy_all(radiant)
```

copy_from

Source for package functions

Description

Source for package functions

Usage

```
copy_from(.from, ...)
```

Arguments

```
. from The package to pull the function from. . . Functions to pull
```

Details

Equivalent of source with local=TRUE for package functions. Written by smbache, author of the import package. See https://github.com/smbache/import/issues/4 for a discussion. This function will be depracated when (if) it is included in https://github.com/smbache/import

```
copy_from(radiant, state_init)
```

24 correlation

correlation	Calculate correlations for two or more variables	

Description

Calculate correlations for two or more variables

Usage

```
correlation(dataset, vars, type = "pearson", dec = 2, data_filter = "")
```

Arguments

dataset	Dataset name (string). This can be a dataframe in the global environment or an element in an r_data list from Radiant
vars	Variables to include in the analysis
type	Type of correlations to calculate. Options are "pearson", "spearman", and "kendall". "pearson" is the default
dec	Number of decimals to show
data_filter	Expression entered in, e.g., Data > View to filter the dataset in Radiant. The expression should be a string (e.g., "price > 10000")

Details

See http://vnijs.github.io/radiant/quant/correlation.html for an example in Radiant

Value

A list with all variables defined in the function as an object of class compare_means

See Also

```
summary.correlation_ to summarize results
plot.correlation_ to plot results
```

```
result <- correlation("diamonds", c("price","carat"))
result <- correlation("diamonds", c("price","carat","clarity"))
result <- correlation("diamonds", "price:table")
result <- diamonds %>% correlation("price:table")
```

cross_tabs 25

cross_tabs	
------------	--

Description

Evaluate associations between categorical variables

Usage

```
cross_tabs(dataset, var1, var2, data_filter = "")
```

Arguments

dataset	Dataset name (str	ing). This c	an be a dataframe	in the gl	obal environment or an

element in an r_data list from Radiant

var1 A categorical variable

var2 Another categorical variable

expression should be a string (e.g., "price > 10000")

Details

```
See http://vnijs.github.io/radiant/quant/cross_tabs.html for an example in Radiant
```

Value

A list of all variables used in cross_tabs as an object of class cross_tabs

See Also

```
summary.cross_tabs to summarize results
plot.cross_tabs to plot results
```

```
result <- cross_tabs("newspaper", "Income", "Newspaper")
result <- newspaper %>% cross_tabs("Income", "Newspaper")
```

26 decile_split

C۷

Coefficient of variation

Description

Coefficient of variation

Usage

```
cv(x, na.rm = TRUE)
```

Arguments

x Input variable

na.rm If TRUE missing values are removed before calculation

Value

Coefficient of variation

Examples

```
cv(runif (100))
```

decile_split

Create deciles

Description

Create deciles

Usage

```
decile_split(x)
```

Arguments

x Input variable

Value

Factor variable

diamonds 27

diamonds

Diamond prices

Description

Diamond prices

Usage

data(diamonds)

Format

A data frame with 3000 rows and 10 variables

Details

A sample of 3,000 from the diamonds dataset bundeled with ggplot2. Description provided in attr(diamonds,"description")

does_vary

Does a vector have non-zero variability?

Description

Does a vector have non-zero variability?

Usage

```
does_vary(x)
```

Arguments

Х

Input variable

Value

```
Logical. TRUE is there is variability
```

```
summarise_each(diamonds, funs(does_vary)) %>% as.logical
```

28 dtree_parser

dtree

Create a decision tree

Description

Create a decision tree

Usage

```
dtree(y1, opt = "max")
```

Arguments

yl A yaml string or a list (e.g., from yaml::yaml.load_file())

opt Find the maximum ("max") or minimum ("min") value for each decision node

Details

See http://vnijs.github.io/radiant/base/dtree.html for an example in Radiant

Value

A list with the initial tree and the calculated tree

See Also

```
summary.dtree to summarize results
plot.dtree to plot results
```

dtree_parser

Parse yaml input for dtree to provide (more) useful error messages

Description

Parse yaml input for dtree to provide (more) useful error messages

Usage

```
dtree_parser(y1)
```

Arguments

yl A yaml string

Details

See http://vnijs.github.io/radiant/base/dtree.html for an example in Radiant

Value

An updated yaml string or a vector messages to return to the users

explore 29

See Also

```
dtree to calculate tree
summary.dtree to summarize results
plot.dtree to plot results
```

explore

Explore data

Description

Explore data

Usage

```
explore(dataset, vars = "", byvar = "", fun = "mean_rm", tabfilt = "",
  tabsort = "", data_filter = "", shiny = FALSE)
```

Arguments

dataset	Dataset name (string). This can be a dataframe in the global environment or an element in an r_data list from Radiant
vars	(Numerical) variables to summaries
byvar	Variable(s) to group data by before summarizing
fun	Functions to use for summarizing
tabfilt	Expression used to filter the table. This should be a string (e.g., "Total > 10000")
tabsort	Expression used to sort the table (e.g., "-Total")
data_filter	Expression entered in, e.g., Data > View to filter the dataset in Radiant. The expression should be a string (e.g., "price > 10000")
shiny	Logical (TRUE, FALSE) to indicate if the function call originate inside a shiny app

Details

```
See http://vnijs.github.io/radiant/base/explore.html for an example in Radiant
```

Value

A list of all variables defined in the function as an object of class explore

See Also

```
summary.explore to show summaries
```

```
result <- explore("diamonds", "price:x")
summary(result)
result <- explore("diamonds", c("price", "carat"), byvar = "cut", fun = c("n_missing", "skew"))
summary(result)
diamonds %>% explore("price", byvar = "cut", fun = c("length", "n_distinct"))
```

30 ff_design

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fa	ct	or	٦,	76	r

Convert character to factors as needed

Description

Convert character to factors as needed

Usage

```
factorizer(dat, safx = 20)
```

Arguments

dat Data.frame

safx Values to levels ratio

Value

Data.frame with factors

ff_design

Function to generate a fractional factorial design

Description

Function to generate a fractional factorial design

Usage

```
ff_design(attr, trial = 0, rseed = 172110)
```

Arguments

attr Attributes used to generate profiles

trial Number of trials that have already been run

rseed Random seed to use

Details

See http://vnijs.github.io/radiant/marketing/conjoint_profiles.html for an example in Radiant

See Also

```
conjoint_profiles to calculate results
summary.conjoint_profiles to summarize results
```

filterdata 31

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Filter data with user-specified expression

Description

Filter data with user-specified expression

Usage

```
filterdata(dat, filt = "")
```

Arguments

dat Data.frame to filter

filt Filter expression to apply to the specified dataset (e.g., "price > 10000" if dataset

is "diamonds")

Value

Filtered data.frame

flip

Flip the DT table to put Function, Variable, or Group by on top

Description

Flip the DT table to put Function, Variable, or Group by on top

Usage

```
flip(expl, top = "fun")
```

Arguments

expl Return value from explore

top The variable (type) to display at the top of the table ("fun" for Function, "var"

for Variable, and "byvar" for Group by. "fun" is the default

Details

See http://vnijs.github.io/radiant/base/explore.html for an example in Radiant

See Also

```
explore to generate summaries
make_expl to create the DT table
```

full_factor

Examples

```
result <- explore("diamonds", "price:x") %>% flip("var")
result <- explore("diamonds", "price", byvar = "cut", fun = c("length", "skew")) %>% flip("byvar")
```

full_factor

Factor analysis (PCA)

Description

Factor analysis (PCA)

Usage

```
full_factor(dataset, vars, method = "PCA", nr_fact = 2,
  rotation = "varimax", data_filter = "")
```

Arguments

dataset	Dataset name (string). This can be a dataframe in the global environment or an element in an r_data list from Radiant
vars	Variables to include in the analysis
method	Factor extraction method to use
nr_fact	Number of factors to extract
rotation	Apply varimax rotation or no rotation ("varimax" or "none")
data_filter	Expression entered in, e.g., Data > View to filter the dataset in Radiant. The expression should be a string (e.g., "price > 10000")

Details

See http://vnijs.github.io/radiant/marketing/full_factor.html for an example in Radiant

Value

A list with all variables defined in the function as an object of class full_factor

See Also

```
summary.full_factor to summarize results
plot.full_factor to plot results
```

```
result <- full_factor("diamonds",c("price","carat","table","x","y"))
result <- full_factor("diamonds",c("price","carat","table","x","y"), method = "maxlik")
result <- diamonds %>% full_factor(c("price","carat","table","x","y"), method = "maxlik")
```

getclass 33

Description

Get variable class

Usage

```
getclass(dat)
```

Arguments

dat

Dataset to evaluate

Details

Get variable class information for each column in a data.frame

Value

Vector with class information for each variable

Examples

```
getclass(mtcars)
```

getdata

Get data for analysis functions

Description

Get data for analysis functions

Usage

```
getdata(dataset, vars = "", filt = "", rows = NULL, na.rm = TRUE)
```

Arguments

dataset	Name of the dataframe
vars	Variables to extract from the dataframe
filt	Filter to apply to the specified dataset. For example "price > 10000" if dataset is "diamonds" (default is "")
rows	Select rows in the specified dataset. For example "1:10" for the first 10 rows or " $n()$ -10: $n()$ " for the last 10 rows (default is NULL)
na.rm	Remove rows with missing values (default is TRUE)

34 glm_reg

Value

Data.frame with specified columns and rows

Examples

```
r_data <<- list()
r_data$dat <<- mtcars
getdata("dat","mpg:vs", filt = "mpg > 20", rows = 1:5)
rm(r_data, envir = .GlobalEnv)
```

getsummary

Create data.frame summary

Description

Create data.frame summary

Usage

```
getsummary(dat, dc = getclass(dat))
```

Arguments

dat Data.frame

dc Class for each variable

Details

Used in Radiant's Data > Transform tab

glm_reg

Generalized linear models (GLM)

Description

Generalized linear models (GLM)

Usage

```
glm_reg(dataset, dep_var, indep_var, lev = "", link = "logit",
  int_var = "", check = "", dec = 3, data_filter = "")
```

hier_clus 35

Arguments

dataset Dataset name (string). This can be a dataframe in the global environment or an

element in an r_data list from Radiant

dep_var The response variable in the logit (probit) model

indep_var Explanatory variables in the model

lev The level in the response variable defined as _success_

link Link function for _glm_ ('logit' or 'probit'). 'logit' is the default

int_var Interaction term to include in the model (not implement)

check Optional output or estimation parameters. "vif" to show the multicollinearity

diagnostics. "confint" to show coefficient confidence interval estimates. "odds" to show odds ratios and confidence interval estimates. "standardize" to output standardized coefficient estimates. "stepwise" to apply step-wise selection of

variables

dec Number of decimals to show

data_filter Expression entered in, e.g., Data > View to filter the dataset in Radiant. The

expression should be a string (e.g., "price > 10000")

Details

See http://vnijs.github.io/radiant/quant/glm_reg.html for an example in Radiant

Value

A list with all variables defined in glm_reg as an object of class glm_reg

See Also

```
summary.glm_reg to summarize the results
plot.glm_reg to plot the results
predict.glm_reg to generate predictions
plot.glm_predict to plot prediction output
```

Examples

```
result <- glm_reg("titanic", "survived", c("pclass","sex"), lev = "Yes")
result <- glm_reg("titanic", "survived", c("pclass","sex"))</pre>
```

hier_clus

Hierarchical cluster analysis

Description

Hierarchical cluster analysis

Usage

```
hier_clus(dataset, vars, distance = "sq.euclidian", method = "ward.D",
   data_filter = "")
```

36 inverse

Arguments

dataset Dataset name (string). This can be a dataframe in the global environment or an

element in an r_data list from Radiant

vars Vector of variables to include in the analysis

distance Distance method Method

expression should be a string (e.g., "price > 10000")

Details

See http://vnijs.github.io/radiant/marketing/hier_clus.html for an example in Radiant

Value

A list of all variables used in hier_clus as an object of class hier_clus

See Also

```
summary.hier_clus to summarize results
plot.hier_clus to plot results
```

Examples

```
result <- hier_clus("shopping", vars = c("v1:v6"))</pre>
```

inverse

Calculate inverse of a variable

Description

Calculate inverse of a variable

Usage

inverse(x)

Arguments

Х

Input variable

Value

1/x

is_empty 37

is_empty

Is a character variable defined

Description

Is a character variable defined

Usage

```
is_empty(x, empty = "")
```

Arguments

x Character value to evaluate

empty Indicate what 'empty' means. Default is empty string (i.e., "")

Details

Is a variable NULL or an empty string

Value

TRUE if empty, else FALSE

Examples

```
is_empty("")
is_empty(NULL)
```

is_string

Is input a string?

Description

Is input a string?

Usage

```
is_string(x)
```

Arguments

Х

Input

Details

Is input a string

Value

TRUE if string, else FALSE

38 kmeans_clus

Examples

```
is_string("")
is_string("data")
is_string(c("data","data"))
is_string(NULL)
```

iterms

Create a vector of interaction terms

Description

Create a vector of interaction terms

Usage

```
iterms(vars, nway, sep = ":")
```

Arguments

vars Variables lables to use

nway 2-way (2) or 3-way (3) interactions labels to create sep Separator between variable names (default is:)

Value

Character vector of interaction term labels

Examples

```
paste0("var", 1:3) %>% iterms(2)
paste0("var", 1:3) %>% iterms(3)
paste0("var", 1:3) %>% iterms(2, sep = ".")
```

kmeans_clus

K-means cluster analysis

Description

K-means cluster analysis

Usage

```
kmeans_clus(dataset, vars, hc_init = TRUE, distance = "sq.euclidian",
  method = "ward.D", seed = 1234, nr_clus = 2, data_filter = "")
```

kurtosi 39

Arguments

dataset	Dataset name (string). This can be a dataframe in the global environment or an	
	1 1 1 0 7 1	

element in an r_data list from Radiant

vars Vector of variables to include in the analysis

hc_init Use centers from hier_clus as the starting point

distance Distance for hier_clus
method Method for hier_clus

seed Random see to use for kmeans if hc_init is FALSE

nr_clus Number of clusters to extract

expression should be a string (e.g., "price > 10000")

Details

See http://vnijs.github.io/radiant/marketing/kmeans_clus.html for an example in Radiant

Value

A list of all variables used in kmeans_clus as an object of class kmeans_clus

See Also

```
summary.kmeans_clus to summarize results
plot.kmeans_clus to plot results
save_membership to add cluster membership to the selected dataset
```

Examples

```
result <- kmeans_clus("shopping", c("v1:v6"))</pre>
```

kurtosi Exporting the kurtosi function from the psych package

Description

Exporting the kurtosi function from the psych package

40 lin_launcher

launcher	Create a launcher on the desktop for Windows (.bat), Mac (.command), or Linux (.sh)
	manually, or Linux (1871)

Description

Create a launcher on the desktop for Windows (.bat), Mac (.command), or Linux (.sh)

Usage

```
launcher(app = c("analytics", "marketing", "quant", "base"))
```

Arguments

app App to run when the desktop icon is double-clicked ("analytics", "marketing", "quant", or "base"). Default is "analytics"

Details

On Windows/Mac/Linux a file named radiant.bat/radiant.command/radiant.sh will be put on the desktop. Double-click the file to launch the specified Radiant app

See Also

```
win_launcher to create a shortcut on Windows
mac_launcher to create a shortcut on Mac
lin_launcher to create a shortcut on Linux
```

lin_launcher

Create a launcher and updater for Linux (.sh)

Description

Create a launcher and updater for Linux (.sh)

Usage

```
lin_launcher(app = c("analytics", "marketing", "quant", "base"))
```

Arguments

app App to run when the desktop icon is double-clicked ("analytics", "marketing", "quant", or "base"). Default is "analytics"

Details

On Linux a file named 'radiant.sh' and one named 'update_radiant.sh' will be put on the desktop. Double-click the file to launch the specified Radiant app or update Radiant to the latest version

loadcsv 41

Examples

```
if (interactive()) {
  if (Sys.info()["sysname"] == "Linux") {
    lin_launcher()
    fn <- paste0("/home/",Sys.getenv("USER"),"/Desktop/radiant.sh")
    if (!file.exists(fn))
       stop("Linux launcher not created")
    else
       unlink(fn)
  }
}</pre>
```

loadcsv

Load a csv file with read.csv and read_csv

Description

Load a csv file with read.csv and read_csv

Usage

```
loadcsv(fn, header = TRUE, sep = ",", dec = ".", saf = TRUE,
  safx = 20)
```

Arguments

fn	File name string
header	Header in file (TRUE, FALSE)
sep	Use, (default) or; or \t
dec	Decimal symbol. Use . (default) or ,
saf	Convert character variables to factors if (1) there are less than 100 distinct values (2) there are X (see safx) more values than levels
safx	Values to levels ratio

Value

Data.frame with (some) variables converted to factors

42 loadrda

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	vac	ICS V	_u	1 1

Load a csv file with from a url

Description

Load a csv file with from a url

Usage

```
loadcsv_url(csv_url, header = TRUE, sep = ",", dec = ".", saf = TRUE,
    safx = 20)
```

Arguments

csv_url	URL for the csv file
header	Header in file (TRUE, FALSE)
sep	Use, (default) or; or \t
dec	Decimal symbol. Use . (default) or ,
saf	Convert character variables to factors if (1) there are less than 100 distinct values (2) there are X (see safx) more values than levels
safx	Values to levels ratio

Value

Data.frame with (some) variables converted to factors

loadrda

Load an rda file and add it to the radiant data list (r_data)

Description

Load an rda file and add it to the radiant data list (r_data)

Usage

```
loadrda(fn, ext = "rda")
```

Arguments

fn File name string

ext File extension ("rda" is the default)

Value

Data.frame in r_data

loadrda_url 43

loadrda_url

Load an rda file from a url

Description

Load an rda file from a url

Usage

```
loadrda_url(rda_url)
```

Arguments

rda_url

URL for the csv file

Value

Data.frame

mac_launcher

Create a launcher and updater for Mac (.command)

Description

Create a launcher and updater for Mac (.command)

Usage

```
mac_launcher(app = c("analytics", "marketing", "quant", "base"))
```

Arguments

арр

App to run when the desktop icon is double-clicked ("analytics", "marketing", "quant", or "base"). Default is "analytics"

Details

On Mac a file named 'radiant.command' and one named 'update_radiant.command' will be put on the desktop. Double-click the file to launch the specified Radiant app or update Radiant to the latest version

```
if (interactive()) {
   if (Sys.info()["sysname"] == "Darwin") {
     mac_launcher()
     fn <- paste0("/Users/",Sys.getenv("USER"),"/Desktop/radiant.command")
   if (!file.exists(fn))
     stop("Mac launcher not created")
   else
     unlink(fn)
  }
}</pre>
```

44 make_expl

make o	11

Make a pivot tabel in DT

Description

Make a pivot tabel in DT

Usage

```
make_dt(pvt, format = "none", perc = FALSE, search = "",
    searchCols = NULL, order = NULL)
```

Arguments

pvt Return value from pivotr
format Show Color bar ("color_bar"), Heat map ("heat"), or None ("none")

perc Display numbers as percentages (TRUE or FALSE)

search Global search. Used to save and restore state

searchCols Column search and filter. Used to save and restore state

order Column sorting. Used to save and restore state

Details

See http://vnijs.github.io/radiant/base/pivotr.html for an example in Radiant

See Also

```
pivotr to create the pivot-table using dplyr summary.pivotr to print a plain text table
```

Examples

```
pivotr("diamonds", cvars = "cut") %>% make_dt
pivotr("diamonds", cvars = c("cut","clarity")) %>% make_dt(format = "color_bar")
ret <- pivotr("diamonds", cvars = c("cut","clarity"), normalize = "total") %>%
    make_dt(format = "color_bar", perc = TRUE)
```

make_expl

Make a tabel of summary statistics in DT

Description

Make a tabel of summary statistics in DT

Usage

```
make_expl(expl, top = "fun", dec = 3, search = "", searchCols = NULL,
    order = NULL)
```

make_funs 45

Arguments

expl Return value from explore

top The variable (type) to display at the top of the table ("fun" for Function, "var"

for Variable, and "byvar" for Group by

dec Number of decimals to show

search Global search. Used to save and restore state

searchCols Column search and filter. Used to save and restore state

order Column sorting. Used to save and restore state

Details

See http://vnijs.github.io/radiant/base/explore.html for an example in Radiant

See Also

```
pivotr to create the pivot-table using dplyr summary.pivotr to print a plain text table
```

Examples

```
tab <- explore("diamonds", "price:x") %>% make_expl
tab <- explore("diamonds", "price", byvar = "cut", fun = c("length", "skew")) %>%
    make_expl(top = "byvar")
```

make_funs

Make a list of functions-as-formulas to pass to dplyr

Description

Make a list of functions-as-formulas to pass to dplyr

Usage

```
make_funs(x)
```

Arguments

Х

List of functions as strings

Value

List of functions to pass to dplyr in formula form

```
make_funs(c("mean", "sum_rm"))
```

46 max_rm

make_train

Generate a variable used to selected a training sample

Description

Generate a variable used to selected a training sample

Usage

```
make_train(n = 0.7, nr = 100)
```

Arguments

n Number (or fraction) of observations to label as training

nr Number of rows in the dataset

Value

0/1 variables for filtering

Examples

```
make_train(.5, 10)
```

max_rm

 $Max \ with \ na.rm = TRUE$

Description

Max with na.rm = TRUE

Usage

```
max_rm(x)
```

Arguments

Х

Input variable

Value

Maximum value

```
max_rm(runif (100))
```

mds 47

mds

(Dis)similarity based brand maps (MDS)

Description

(Dis)similarity based brand maps (MDS)

Usage

```
mds(dataset, id1, id2, dis, method = "metric", nr_dim = 2,
    data_filter = "")
```

Arguments

dataset	Dataset name (string). This can be a dataframe in the global environment or an element in an r_data list from Radiant
id1	A character variable or factor with unique entries
id2	A character variable or factor with unique entries
dis	A numeric measure of brand dissimilarity
method	Apply metric or non-metric MDS
nr_dim	Number of dimensions
data_filter	Expression entered in, e.g., Data > View to filter the dataset in Radiant. The expression should be a string (e.g., "price > 10000")

Details

```
See http://vnijs.github.io/radiant/marketing/mds.html for an example in Radiant
```

Value

A list of all variables defined in the function as an object of class mds

See Also

```
summary.mds to summarize results
plot.mds to plot results
```

```
result <- mds("city", "from", "to", "distance")
summary(result)
result <- mds("diamonds", "clarity", "cut", "price")
summary(result)</pre>
```

48 median_rm

mean_rm

 $Mean\ with\ na.rm = TRUE$

Description

Mean with na.rm = TRUE

Usage

```
mean_rm(x)
```

Arguments

Х

Input variable

Value

Mean value

Examples

```
mean_rm(runif (100))
```

median_rm

 $Median \ with \ na.rm = TRUE$

Description

Median with na.rm = TRUE

Usage

```
median_rm(x)
```

Arguments

Х

Input variable

Value

Median value

```
median_rm(runif (100))
```

median_split 49

median_split

Median split

Description

Median split

Usage

```
median\_split(x)
```

Arguments

Х

Input variable

Value

Factor variable deciles

min_rm

 $Min\ with\ na.rm = TRUE$

Description

Min with na.rm = TRUE

Usage

```
min_rm(x)
```

Arguments

Х

Input variable

Value

Minimum value

```
min_rm(runif (100))
```

50 mp3

mode_rm

 $Mode\ with\ na.rm = TRUE$

Description

Mode with na.rm = TRUE

Usage

 $mode_rm(x)$

Arguments

Χ

Input variable

Value

Mode value

Examples

mode_rm(diamonds\$cut)

mp3

Conjoint data for MP3 players

Description

Conjoint data for MP3 players

Usage

data(mp3)

Format

A data frame with 18 rows and 6 variables

Details

Conjoint data for MP3 players. Description provided in attr(mp3,"description")

mutate_each 51

mut	ate	0.24	٦h
mu	.ate	ead	211

Add tranformed variables to a data frame (NSE)

Description

Add tranformed variables to a data frame (NSE)

Usage

```
mutate_each(tbl, funs, ..., ext = "")
```

Arguments

tbl	Data frame to add transformed variables to
funs	Function(s) to apply (e.g., funs(log))
	Variables to transform
ext	Extension to add for each variable

Details

Wrapper for dplyr::mutate_each that allows custom variable name extensions

Examples

```
mutate_each(mtcars, funs(log), mpg, cyl, ext = "_log")
```

newspaper

Newspaper readership

Description

Newspaper readership

Usage

```
data(newspaper)
```

Format

A data frame with 580 rows and 2 variables

Details

Newspaper readership data for 580 consumers. Description provided in attr(newspaper,"description")

52 n_missing

normalize

Normalize a variable x by a variable y

Description

Normalize a variable x by a variable y

Usage

```
normalize(x, y)
```

Arguments

x Input variable

y Normalizing variable

Value

x/y

n_missing

Number of missing values

Description

Number of missing values

Usage

```
n_missing(x)
```

Arguments

х

Input variable

Value

number of missing values

```
n_missing(c("a","b",NA))
```

p05

p05

5th percentile

Description

5th percentile

Usage

```
p05(x, na.rm = TRUE)
```

Arguments

Х

Input variable

na.rm

If TRUE missing values are removed before calculation

Value

5th percentile

Examples

```
p05(rnorm(100))
```

p25

25th percentile

Description

25th percentile

Usage

```
p25(x, na.rm = TRUE)
```

Arguments

X

Input variable

na.rm

If TRUE missing values are removed before calculation

Value

25th percentile

```
p25(rnorm(100))
```

54 p95

p75

75th percentile

Description

75th percentile

Usage

```
p75(x, na.rm = TRUE)
```

Arguments

Х

Input variable

na.rm

If TRUE missing values are removed before calculation

Value

75th percentile

Examples

```
p75(rnorm(100))
```

p95

95th percentile

Description

95th percentile

Usage

```
p95(x, na.rm = TRUE)
```

Arguments

Х

Input variable

na.rm

If TRUE missing values are removed before calculation

Value

95th percentile

```
p95(rnorm(100))
```

pivotr 55

pivotr	Create a pivot table using dplyr

Description

Create a pivot table using dplyr

Usage

```
pivotr(dataset, cvars = "", nvar = "None", fun = "mean",
  normalize = "None", tabfilt = "", tabsort = "", data_filter = "",
  shiny = FALSE)
```

Arguments

dataset	Name of the dataframe to change
cvars	Categorical variables
nvar	Numerical variable
fun	Function to apply to numerical variable
normalize	Normalize the table by "row" total, "colum" totals, or overall "total"
tabfilt	Expression used to filter the table. This should be a string (e.g., "Total > 10000 ")
tabsort	Expression used to sort the table (e.g., "-Total")
data_filter	Expression used to filter the dataset. This should be a string (e.g., "price > 10000 ")
shiny	Logical (TRUE, FALSE) to indicate if the function call originate inside a shiny app

Details

Create a pivot-table. See http://vnijs.github.io/radiant/base/pivotr.html for an example in Radiant

```
result <- pivotr("diamonds", cvars = "cut")$tab
result <- pivotr("diamonds", cvars = c("cut","clarity","color"))$tab
result <- pivotr("diamonds", cvars = "cut:clarity", nvar = "price")$tab</pre>
```

56 plot.compare_props

plot.compare_means

Plot method for the compare_means function

Description

Plot method for the compare_means function

Usage

```
## S3 method for class 'compare_means'
plot(x, plots = "scatter", shiny = FALSE, ...)
```

Arguments

```
    Return value from compare_means
    One or more plots ("bar", "density", "box", or "scatter")
    shiny
    Did the function call originate inside a shiny app
    further arguments passed to or from other methods
```

Details

See http://vnijs.github.io/radiant/quant/compare_means.html for an example in Radiant

See Also

```
compare_means to calculate results
summary.compare_means to summarize results
```

Examples

```
result <- compare_means("diamonds","cut","price")
plot(result, plots = c("bar","density"))</pre>
```

plot.compare_props

Plot method for the compare_props function

Description

Plot method for the compare_props function

Usage

```
## S3 method for class 'compare_props'
plot(x, plots = "bar", shiny = FALSE, ...)
```

plot.conjoint 57

Arguments

х	Return value from compare_props
plots	One or more plots of proportions ("bar" or "dodge")
shiny	Did the function call originate inside a shiny app
	further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/quant/compare_props.html for an example in Radiant

See Also

```
compare_props to calculate results
summary.compare_props to summarize results
```

Examples

```
result <- compare_props("titanic", "pclass", "survived")
plot(result, plots = c("bar","dodge"))</pre>
```

plot.conjoint

Plot method for the conjoint function

Description

Plot method for the conjoint function

Usage

```
## S3 method for class 'conjoint'
plot(x, plots = "pw", scale_plot = FALSE,
    shiny = FALSE, ...)
```

Arguments

x	Return value from conjoint
plots	Show either the part-worth ("pw") or importance-weights ("iw") plot
scale_plot	Scale the axes of the part-worth plots to the same range
shiny	Did the function call originate inside a shiny app
• • •	further arguments passed to or from other methods

Details

```
See http://vnijs.github.io/radiant/marketing/conjoint.html for an example in Radiant
```

See Also

```
conjoint to generate results
summary.conjoint to summarize results
```

58 plot.cross_tabs

Examples

```
result <- conjoint(dataset = "mp3", dep_var = "Rating", indep_var = "Memory:Shape")
plot(result, scale_plot = TRUE)
plot(result, plots = "iw")</pre>
```

plot.correlation_

Plot method for the correlation function

Description

Plot method for the correlation function

Usage

```
## S3 method for class 'correlation_' plot(x, ...)
```

Arguments

x Return value from correlation

... further arguments passed to or from other methods.

Details

See http://vnijs.github.io/radiant/quant/correlation.html for an example in Radiant

See Also

```
correlation to calculate results summary.correlation_ to summarize results
```

Examples

```
result <- correlation("diamonds",c("price","carat","clarity"))
plot(result)
diamonds %>% correlation("price:clarity") %>% plot
```

plot.cross_tabs

Plot method for the cross_tabs function

Description

Plot method for the cross_tabs function

Usage

```
## S3 method for class 'cross_tabs'
plot(x, check = "", shiny = FALSE, ...)
```

plot.dtree 59

Arguments

Х	Return value from cross_tabs
check	Show plots for variables var1 and var2. "observed" for the observed frequencies table, "expected" for the expected frequencies table (i.e., frequencies that would be expected if the null hypothesis holds), "chi_sq" for the contribution to the overall chi-squared statistic for each cell (i.e., (o - e)^2 / e), "dev_std" for the standardized differences between the observed and expected frequencies (i.e., (o - e) / sqrt(e)), and "row_perc", "col_perc", and "perc" for row, column, and table percentages respectively
shiny	Did the function call originate inside a shiny app
	further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/quant/cross_tabs.html for an example in Radiant

See Also

```
cross_tabs to calculate results
summary.cross_tabs to summarize results
```

Examples

```
result <- cross_tabs("newspaper", "Income", "Newspaper")
plot(result, check = c("observed","expected","chi_sq"))
newspaper %>% cross_tabs("Income", "Newspaper") %>% plot(c("observed","expected"))
```

plot.dtree

Plot method for the dtree function

Description

Plot method for the dtree function

Usage

```
## S3 method for class 'dtree'
plot(x, symbol = "$", dec = 3, final = FALSE,
    shiny = FALSE, ...)
```

Arguments

X	Return value from dtree	
symbol	Monetary symbol to use (\$ is the default)	
dec	Decimal places to round results to	
final	If TRUE plot the decision tree solution, else the initial decision tree	
shiny	Did the function call originate inside a shiny app	
	further arguments passed to or from other methods	

60 plot.full_factor

Details

```
See http://vnijs.github.io/radiant/quant/dtree.html for an example in Radiant
```

See Also

```
dtree to generate the result summary. dtree to summarize results
```

```
plot.full_factor
```

Plot method for the full_factor function

Description

Plot method for the full_factor function

Usage

```
## S3 method for class 'full_factor'
plot(x, shiny = FALSE, ...)
```

Arguments

```
x Return value from full_factorshiny Did the function call originate inside a shiny appfurther arguments passed to or from other methods
```

Details

```
See http://vnijs.github.io/radiant/marketing/full_factor.html for an example in Radiant
```

See Also

```
full_factor to calculate results
plot.full_factor to plot results
```

```
result <- full_factor("diamonds",c("price","carat","table"))
plot(result)
result <- full_factor("computer","high_end:business")
summary(result)</pre>
```

plot.glm_predict 61

plot.glm_predict

Plot method for the predict.glm_reg function

Description

Plot method for the predict.glm_reg function

Usage

```
## $3 method for class 'glm_predict'
plot(x, xvar = "", facet_row = ".", facet_col = ".",
    color = "none", conf_lev = 0.95, ...)
```

Arguments

X	Return value from predict.glm_reg.
xvar	Variable to display along the X-axis of the plot
facet_row	Create vertically arranged subplots for each level of the selected factor variable
facet_col	Create horizontally arranged subplots for each level of the selected factor variable
color	Adds color to a scatter plot to generate a heat map. For a line plot one line is created for each group and each is assigned a different colour
conf_lev	Confidence level to use for prediction intervals (.95 is the default). Note that the error bars for predictions are approximations at this point.
	further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/quant/glm_reg.html for an example in Radiant

See Also

```
glm_reg to generate the result
summary.glm_reg to summarize results
plot.glm_reg to plot results
predict.glm_reg to generate predictions
```

```
result <- glm_reg("titanic", "survived", c("pclass", "sex", "age"), lev = "Yes")
pred <- predict(result, pred_cmd = "pclass = levels(pclass)")
plot(pred, xvar = "pclass")
pred <- predict(result, pred_cmd = "age = 0:100")
plot(pred, xvar = "age")
pred <- predict(result, pred_cmd = "pclass = levels(pclass), sex = levels(sex)")
plot(pred, xvar = "pclass", color = "sex")
pred <- predict(result, pred_cmd = "pclass = levels(pclass), age = seq(0,100,20)")
plot(pred, xvar = "pclass", color = "age")
plot(pred, xvar = "age", color = "pclass")
pred <- predict(result, pred_cmd="pclass=levels(pclass), sex=levels(sex), age=seq(0,100,20)")</pre>
```

62 plot.glm_reg

```
plot(pred, xvar = "age", color = "sex", facet_col = "pclass")
plot(pred, xvar = "age", color = "pclass", facet_col = "sex")
pred <- predict(result, pred_cmd="pclass=levels(pclass), sex=levels(sex), age=seq(0,100,5)")
plot(pred, xvar = "age", color = "sex", facet_col = "pclass")
plot(pred, xvar = "age", color = "pclass", facet_col = "sex")</pre>
```

plot.glm_reg

Plot method for the glm_reg function

Description

Plot method for the glm_reg function

Usage

```
## S3 method for class 'glm_reg'
plot(x, plots = "", conf_lev = 0.95, intercept = FALSE,
    shiny = FALSE, ...)
```

Arguments

Х	Return value from glm_reg
plots	Plots to produce for the specified GLM model. Use "" to avoid showing any plots (default). "hist" shows histograms of all variables in the model. "scatter" shows scatter plots (or box plots for factors) for the response variable with each explanatory variable. "dashboard" is a series of four plots used to visually evaluate model. "coef" provides a coefficient plot
conf_lev	Confidence level to use for coefficient and odds confidence intervals (.95 is the default)
intercept	Include the intercept in the coefficient plot (TRUE or FALSE). FALSE is the default
shiny	Did the function call originate inside a shiny app
	further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/quant/glm_reg.html for an example in Radiant

See Also

```
glm_reg to generate results
plot.glm_reg to plot results
predict.glm_reg to generate predictions
plot.glm_predict to plot prediction output
```

```
result <- glm_reg("titanic", "survived", c("pclass", "sex"), lev = "Yes")
plot(result, plots = "coef")</pre>
```

plot.hier_clus 63

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Plot method for the hier_clus function

Description

Plot method for the hier_clus function

Usage

```
## S3 method for class 'hier_clus'
plot(x, plots = c("scree", "diff"), cutoff = 0.02,
    shiny = FALSE, ...)
```

Arguments

X	Return value from hier_clus
plots	Plots to return. "diff" shows the percentage change in within-cluster heterogeneity as respondents are group into different number of clusters, "dendro" shows the dendrogram, "scree" shows a scree plot of within-cluster heterogeneity
cutoff	For large datasets plots can take time to render and become hard to interpret. By selection a cutoff point (e.g., 0.05 percent) the initial steps in hierarchical cluster analysis are removed from the plot
shiny	Did the function call originate inside a shiny app
	further arguments passed to or from other methods

Details

```
See http://vnijs.github.io/radiant/marketing/hier_clus.html for an example in Radiant
```

See Also

```
summary.hier_clus to summarize results
plot.hier_clus to plot results
```

```
result <- hier_clus("shopping", vars = c("v1:v6"))
plot(result, plots = c("diff", "scree"), cutoff = .05)
plot(result, plots = "dendro", cutoff = 0)
shopping %>% hier_clus(vars = c("v1:v6")) %>% plot
```

64 plot.mds

plot.kmeans_clus

Plot method for kmeans_clus

Description

Plot method for kmeans_clus

Usage

```
## S3 method for class 'kmeans_clus'
plot(x, shiny = FALSE, ...)
```

Arguments

x Return value from kmeans_clusshiny Did the function call originate inside a shiny appfurther arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/marketing/kmeans_clus.html for an example in Radiant

See Also

```
kmeans_clus to generate results
summary.kmeans_clus to summarize results
save_membership to add cluster membership to the selected dataset
```

Examples

```
result <- kmeans_clus("shopping", vars = c("v1:v6"))
plot(result)</pre>
```

plot.mds

Plot method for the mds function

Description

Plot method for the mds function

Usage

```
## S3 method for class 'mds'
plot(x, rev_dim = "", fontsz = 1.3, ...)
```

plot.pivotr 65

Arguments

```
    x Return value from mds
    rev_dim Flip the axes in plots
    fontsz Font size to use in plots
    further arguments passed to or from other methods
```

Details

```
See http://vnijs.github.io/radiant/marketing/mds.html for an example in Radiant
```

See Also

```
mds to calculate results summary.mds to plot results
```

Examples

```
result <- mds("city","from","to","distance")
plot(result)
plot(result, rev_dim = 1:2)
plot(result, rev_dim = 1:2, fontsz = 2)</pre>
```

plot.pivotr

Plot method for the pivotr function

Description

Plot method for the pivotr function

Usage

```
## S3 method for class 'pivotr'
plot(x, type = "dodge", perc = FALSE, flip = FALSE,
    shiny = FALSE, ...)
```

Arguments

X	Return value from pivotr
type	Plot type to use ("fill" or "dodge" (default))
perc	Use percentage on the y-axis
flip	Flip the axes in a plot (FALSE or TRUE)
shiny	Did the function call originate inside a shiny app
	further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/base/pivotr for an example in Radiant

66 plot.pmap

See Also

```
pivotr to generate summaries summary.pivotr to show summaries
```

Examples

```
pivotr("diamonds", cvars = "cut") %>% plot
pivotr("diamonds", cvars = c("cut","clarity")) %>% plot
pivotr("diamonds", cvars = c("cut","clarity","color")) %>% plot
```

plot.pmap

Plot method for the pmap function

Description

Plot method for the pmap function

Usage

```
## S3 method for class 'pmap'
plot(x, plots = "", scaling = 2.1, fontsz = 1.3, ...)
```

Arguments

X	Return value from pmap
plots	Components to include in the plot ("brand", "attr"). If data on preferences is available use "pref" to add preference arrows to the plot
scaling	Arrow scaling in the brand map
fontsz	Font size to use in plots
	further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/marketing/pmap.html for an example in Radiant

See Also

```
pmap to calculate results
summary.pmap to plot results
```

plot.pre_factor 67

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DIOL.	bre	Tactor

Plot method for the pre_factor function

Description

Plot method for the pre_factor function

Usage

```
## S3 method for class 'pre_factor'
plot(x, ...)
```

Arguments

Return value from pre_factor Χ

further arguments passed to or from other methods . . .

Details

See http://vnijs.github.io/radiant/marketing/pre_factor.html for an example in Radi-

See Also

```
pre_factor to calculate results
summary.pre_factor to summarize results
```

Examples

```
result <- pre_factor("diamonds",c("price","carat","table"))</pre>
plot(result)
```

plot.prob_binom

Plot method for the probability calculator function (binomial)

Description

Plot method for the probability calculator function (binomial)

Usage

```
## S3 method for class 'prob_binom'
plot(x, type = "values", shiny = FALSE, ...)
```

Arguments

type

X	Return value from prob_binom
type	Probabilities or values

Did the function call originate inside a shiny app shiny further arguments passed to or from other methods . . .

68 plot.prob_disc

Details

See http://vnijs.github.io/radiant/quant/prob_calc.html for an example in Radiant

plot.prob_chisq

Plot method for the probability calculator (Chi-squared distribution)

Description

Plot method for the probability calculator (Chi-squared distribution)

Usage

```
## S3 method for class 'prob_chisq'
plot(x, type = "values", shiny = FALSE, ...)
```

Arguments

x Return value from prob_chisq

type Probabilities or values

shiny Did the function call originate inside a shiny app
... further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/quant/prob_calc.html for an example in Radiant

plot.prob_disc

Plot method for the probability calculator function (discrete)

Description

Plot method for the probability calculator function (discrete)

Usage

```
## S3 method for class 'prob_disc'
plot(x, type = "values", shiny = FALSE, ...)
```

Arguments

x Return value from prob_disc

type Probabilities or values

shiny Did the function call originate inside a shiny app
... further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/quant/prob_calc.html for an example in Radiant

plot.prob_fdist 69

plot.prob_fdist

Plot method for the probability calculator (F-distribution)

Description

Plot method for the probability calculator (F-distribution)

Usage

```
## S3 method for class 'prob_fdist'
plot(x, type = "values", shiny = FALSE, ...)
```

Arguments

x Return value from prob_fdist

type Probabilities or values

shiny Did the function call originate inside a shiny app
... further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/quant/prob_calc.html for an example in Radiant

plot.prob_norm

Plot method for the probability calculator (normal)

Description

Plot method for the probability calculator (normal)

Usage

```
## S3 method for class 'prob_norm'
plot(x, type = "values", shiny = FALSE, ...)
```

Arguments

x Return value from prob_norm

type Probabilities or values

shiny Did the function call originate inside a shiny app
... further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/quant/prob_calc.html for an example in Radiant

70 plot.prob_unif

plot.prob_tdist

Plot method for the probability calculator (t-distribution)

Description

Plot method for the probability calculator (t-distribution)

Usage

```
## S3 method for class 'prob_tdist'
plot(x, type = "values", shiny = FALSE, ...)
```

Arguments

type

x Return value from prob_tdist

shiny Did the function call originate inside a shiny app

Probabilities or values

... further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/quant/prob_calc.html for an example in Radiant

plot.prob_unif

Plot method for the probability calculator (uniform)

Description

Plot method for the probability calculator (uniform)

Usage

```
## S3 method for class 'prob_unif'
plot(x, type = "values", shiny = FALSE, ...)
```

Arguments

x Return value from prob_unif

type Probabilities or values

shiny Did the function call originate inside a shiny app
... further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/quant/prob_calc.html for an example in Radiant

plot.regression 71

7 4	
niat	regression

Plot method for the regression function

Description

Plot method for the regression function

Usage

```
## S3 method for class 'regression'
plot(x, plots = "", lines = "", conf_lev = 0.95,
  intercept = FALSE, shiny = FALSE, ...)
```

Arguments

x	Return value from regression
plots	Regression plots to produce for the specified regression model. Enter "" to avoid showing any plots (default). "hist" to show histograms of all variables in the model. "correlations" for a visual representation of the correlation matrix selected variables. "scatter" to show scatter plots (or box plots for factors) for the response variable with each explanatory variable. "dashboard" for a series of six plots that can be used to evaluate model fit visually. "resid_pred" to plot the explanatory variables against the model residuals. "coef" for a coefficient plot with adjustable confidence intervals. "leverage" to show leverage plots for each explanatory variable
lines	Optional lines to include in the select plot. "line" to include a line through a scatter plot. "loess" to include a polynomial regression fit line. To include both use c("line", "loess")
conf_lev	Confidence level used to estimate confidence intervals (.95 is the default)
intercept	Include the intercept in the coefficient plot (TRUE, FALSE). FALSE is the default
shiny	Did the function call originate inside a shiny app
	further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/quant/regression.html for an example in Radiant

See Also

```
regression to generate the results
summary.regression to summarize results
predict.regression to generate predictions
```

72 plot.reg_predict

Examples

```
result <- regression("diamonds", "price", c("carat","clarity"))
plot(result, plots = "dashboard")
plot(result, plots = "dashboard", lines = c("line","loess"))
plot(result, plots = "coef", intercept = TRUE)
plot(result, plots = "coef", conf_lev = .99, intercept = TRUE)
plot(result, plots = "hist")
plot(result, plots = "scatter", lines = c("line","loess"))
plot(result, plots = "correlations")
plot(result, plots = "leverage")
plot(result, plots = "resid_pred", lines = "line")</pre>
```

plot.reg_predict

Plot method for the predict.regression function

Description

Plot method for the predict.regression function

Usage

```
## S3 method for class 'reg_predict'
plot(x, xvar = "", facet_row = ".", facet_col = ".",
    color = "none", conf_lev = 0.95, ...)
```

Arguments

X	Return value from predict.regression.
xvar	Variable to display along the X-axis of the plot
facet_row	Create vertically arranged subplots for each level of the selected factor variable
facet_col	Create horizontally arranged subplots for each level of the selected factor variable
color	Adds color to a scatter plot to generate a heat map. For a line plot one line is created for each group and each is assigned a different colour
conf_lev	Confidence level to use for prediction intervals (.95 is the default). Note that the error bars for predictions are approximations at this point.
	further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/quant/regression.html for an example in Radiant

See Also

```
regression to generate the result
summary.regression to summarize results
plot.regression to plot results
predict.regression to generate predictions
```

plot.repeater 73

Examples

```
result <- regression("diamonds", "price", c("carat","clarity"))
pred <- predict(result, pred_cmd = "carat = 1:10")
plot(pred, xvar = "carat")
result <- regression("diamonds", "price", c("carat","clarity"), int_var = "carat:clarity")
dpred <- getdata("diamonds") %>% slice(1:100)
pred <- predict(result, pred_data = "dpred")
plot(pred, xvar = "carat", color = "clarity")
rm(dpred, envir = .GlobalEnv)</pre>
```

plot.repeater

Plot repeated simulation

Description

Plot repeated simulation

Usage

```
## S3 method for class 'repeater'
plot(x, sum_vars = "", byvar = "sim", fun = "sum_rm",
   form = "", shiny = FALSE, ...)
```

Arguments

x	Return value from repeater
sum_vars	(Numerical) variables to summaries
byvar	Variable(s) to group data by before summarizing
fun	Functions to use for summarizing
form	A string with the formula to evaluate (e.g., "profit = demand * (price - cost)")
shiny	Did the function call originate inside a shiny app
	further arguments passed to or from other methods

plot.simulater

Plot method for the simulater function

Description

Plot method for the simulater function

Usage

```
## S3 method for class 'simulater'
plot(x, shiny = FALSE, ...)
```

74 plot.single_mean

Arguments

X	Return value from simulater		
shiny	Did the function call originate inside a shiny app		
	further arguments passed to or from other methods		

Details

See http://vnijs.github.io/radiant/quant/simulater for an example in Radiant

See Also

```
single_mean to generate the result
summary.single_mean to summarize results
```

Examples

plot.single_mean

Plot method for the single_mean function

Description

Plot method for the single_mean function

Usage

```
## S3 method for class 'single_mean'
plot(x, plots = "hist", shiny = FALSE, ...)
```

Arguments

Plots to generate. "hist" shows a histogram of the data along with vertical that indicate the sample mean and the confidence interval. "simulate" should the location of the sample mean and the comparison value (comp_value). Substitution is used to demonstrate the sampling variability in the data under null-hypothesis
shiny Did the function call originate inside a shiny app
further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/quant/single_mean.html for an example in Radiant

plot.single_prop 75

See Also

```
single_mean to generate the result
summary.single_mean to summarize results
```

Examples

```
result <- single_mean("diamonds","price", comp_value = 3500)
plot(result, plots = c("hist", "simulate"))</pre>
```

plot.single_prop

Plot method for the single_prop function

Description

Plot method for the single_prop function

Usage

```
## S3 method for class 'single_prop'
plot(x, plots = "bar", shiny = FALSE, ...)
```

Arguments

X	Return value from single_prop
plots	Plots to generate. "bar" shows a bar chart of the data. The "simulate" chart shows the location of the sample proportion and the comparison value (comp_value). Simulation is used to demonstrate the sampling variability in the data under the null-hypothesis
shiny	Did the function call originate inside a shiny app
	further arguments passed to or from other methods

Details

```
See http://vnijs.github.io/radiant/quant/single_prop.html for an example in Radiant
```

See Also

```
single_prop to generate the result
summary.single_prop to summarize the results
```

```
result <- single_prop("diamonds","clarity", lev = "IF", comp_value = 0.05)
plot(result, plots = c("hist", "simulate"))
result <- single_prop("titanic","pclass", lev = "1st")
plot(result, plots = c("hist","simulate"))</pre>
```

76 pmap

ртар	Attribute based brand maps	
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Description

Attribute based brand maps

Usage

```
pmap(dataset, brand, attr, pref = "", nr_dim = 2, data_filter = "")
```

Arguments

dataset	Dataset name (string)	. This can be a dataframe	in the global environment or an

element in an r_data list from Radiant

brand A character variable with brand names

attr Names of numeric variables

pref Names of numeric brand preference measures

nr_dim Number of dimensions

expression should be a string (e.g., "price > 10000")

Details

See http://vnijs.github.io/radiant/marketing/pmap.html for an example in Radiant

Value

A list of all variables defined in the function as an object of class pmap

See Also

```
summary.pmap to summarize results
plot.pmap to plot results
```

```
result <- pmap("computer","brand","high_end:business")</pre>
```

predict.glm_reg 77

predict	~lm	roa
predict	. 6 TW	reg

Predict method for the glm_reg function

Description

Predict method for the glm_reg function

Usage

```
## S3 method for class 'glm_reg'
predict(object, pred_vars = "", pred_data = "",
    pred_cmd = "", prn = TRUE, ...)
```

Arguments

object	Return value from glm_reg
pred_vars	Variables selected to generate predictions
pred_data	Provide the name of a dataframe to generate predictions (e.g., "titanic"). The dataset must contain all columns used in the estimation
pred_cmd	Generate predictions using a command. For example, 'pclass = levels(pclass)' would produce predictions for the different levels of factor 'pclass'. To add another variable use a ',' (e.g., 'pclass = levels(pclass), age = $seq(0,100,20)$ ')
prn	Print prediction results (default is TRUE)
• • •	further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/quant/glm_reg.html for an example in Radiant

See Also

```
glm_reg to generate the result
summary.glm_reg to summarize results
plot.glm_reg to plot results
plot.glm_predict to plot prediction output
```

```
result <- glm_reg("titanic", "survived", c("pclass", "sex"), lev = "Yes")
predict(result, pred_cmd = "pclass = levels(pclass)")
glm_reg("titanic", "survived", c("pclass", "sex"), lev = "Yes") %>%
    predict(pred_cmd = "sex = c('male', 'female')")
glm_reg("titanic", "survived", c("pclass", "sex"), lev = "Yes") %>%
    predict(pred_data = "titanic")
```

78 predict.regression

Description

Predict method for the regression function

Usage

```
## S3 method for class 'regression'
predict(object, pred_vars = "", pred_data = "",
    pred_cmd = "", conf_lev = 0.95, prn = TRUE, ...)
```

Arguments

object	Return value from regression
pred_vars	Variables to use for prediction
pred_data	Name of the dataset to use for prediction
pred_cmd	Command used to generate data for prediction
conf_lev	Confidence level used to estimate confidence intervals (.95 is the default)
prn	Print prediction results (default is TRUE)
	further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/quant/regression.html for an example in Radiant

See Also

```
regression to generate the result
summary.regression to summarize results
plot.regression to plot results
```

```
result <- regression("diamonds", "price", c("carat","clarity"))
predict(result, pred_cmd = "carat = 1:10")
predict(result, pred_cmd = "clarity = levels(clarity)")
result <- regression("diamonds", "price", c("carat","clarity"), int_var = c("carat:clarity"))
dpred <<- getdata("diamonds") %>% slice(1:10)
predict(result, pred_data = "dpred")
rm(dpred, envir = .GlobalEnv)
```

pre_factor 79

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pre_	+ 201	tor
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Evaluate if data are appropriate for PCA / Factor analysis

Description

Evaluate if data are appropriate for PCA / Factor analysis

Usage

```
pre_factor(dataset, vars, data_filter = "")
```

Arguments

dataset Dataset name (string). This can be a dataframe in the global environment or an

element in an r_data list from Radiant

vars Variables to include in the analysis

expression should be a string (e.g., "price > 10000")

Details

See $\verb|http://vnijs.github.io/radiant/marketing/pre_factor.html| for an example in Radiant| for an ex$

Value

A list with all variables defined in the function as an object of class pre_factor

See Also

```
summary.pre_factor to summarize results
plot.pre_factor to plot results
```

Examples

```
result <- pre_factor("diamonds",c("price","carat","table"))</pre>
```

print.gtable

Print/draw method for grobs produced by gridExtra

Description

Print/draw method for grobs produced by gridExtra

Usage

```
## S3 method for class 'gtable' print(x, ...)
```

prob_binom

Arguments

x a gtable object

... further arguments passed to or from other methods

Details

Print method for ggplot grobs created using arrangeGrob. Code is based on https://github.com/baptiste/gridextra/blob/master/inst/testing/shiny.R

Value

A plot

prob_binom

Probability calculator for the binomial distribution (binomial)

Description

Probability calculator for the binomial distribution (binomial)

Usage

```
prob_binom(n, p, lb = NA, ub = NA, plb = NA, pub = NA, dec = 3)
```

Arguments

n	Number of trials
р	Probability
lb	Lower bound on the number of successes
ub	Upper bound on the number of successes
plb	Lower probability bound
pub	Upper probability bound
dec	Number of decimals to show

Details

See http://vnijs.github.io/radiant/quant/prob_calc.html for an example in Radiant

prob_chisq 81

prob_chisq Probability calculator for the chi-squared distribution	
--	--

Description

Probability calculator for the chi-squared distribution

Usage

```
prob_chisq(df, lb = NA, ub = NA, plb = NA, pub = NA, dec = 3)
```

Arguments

df	Degrees of freedom
lb	Lower bound (default is -Inf)
ub	Upper bound (default is Inf)
plb	Lower probability bound
pub	Upper probability bound
dec	Number of decimals to show

Details

See http://vnijs.github.io/radiant/quant/prob_calc.html for an example in Radiant

prob_disc Prob	bability calculator for the	discrete distribution (discrete)
----------------	-----------------------------	----------------------------------

Description

Probability calculator for the discrete distribution (discrete)

Usage

```
prob_disc(v, p, lb = NA, ub = NA, plb = NA, pub = NA, dec = 3)
```

Arguments

V	Values
p	Probabilities
lb	Lower bound on the number of successes
ub	Upper bound on the number of successes
plb	Lower probability bound
pub	Upper probability bound
dec	Number of decimals to show

Details

See http://vnijs.github.io/radiant/quant/prob_calc.html for an example in Radiant

82 prob_norm

prob_fdist	Probability calculator for the F-distribution	
------------	---	--

Description

Probability calculator for the F-distribution

Usage

```
prob_fdist(df1, df2, lb = NA, ub = NA, plb = NA, pub = NA, dec = 3)
```

Arguments

df1	Degrees of freedom
df2	Degrees of freedom
1b	Lower bound (default is -Inf)
ub	Upper bound (default is Inf)
plb	Lower probability bound
pub	Upper probability bound
dec	Number of decimals to show

Details

See http://vnijs.github.io/radiant/quant/prob_calc.html for an example in Radiant

prob_norm	Probability calculator for the normal distribution	

Description

Probability calculator for the normal distribution

Usage

```
prob_norm(mean, stdev, lb = NA, ub = NA, plb = NA, pub = NA, dec = 3)
```

Arguments

mean	Mean
stdev	Standard deviation
1b	Lower bound (default is -Inf)
ub	Upper bound (default is Inf)
plb	Lower probability bound
pub	Upper probability bound
dec	Number of decimals to show

Details

See http://vnijs.github.io/radiant/quant/prob_calc.html for an example in Radiant

prob_tdist 83

prob_tdist	prob_tdist	Probability calculator for the t distribution	
------------	------------	---	--

Description

Probability calculator for the t distribution

Usage

```
prob_tdist(df, mean = 0, stdev = 1, lb = NA, ub = NA, plb = NA,
    pub = NA, dec = 3)
```

Arguments

df	Degrees of freedom
mean	Mean
stdev	Standard deviation
1b	Lower bound (default is -Inf)
ub	Upper bound (default is Inf)
plb	Lower probability bound
pub	Upper probability bound
dec	Number of decimals to show

Details

See http://vnijs.github.io/radiant/quant/prob_calc.html for an example in Radiant

prob_unif	Probability calculator for the uniform distribution

Description

Probability calculator for the uniform distribution

Usage

```
prob_unif(min, max, lb = NA, ub = NA, plb = NA, pub = NA, dec = 3)
```

Arguments

min	Minmum value
max	Maximum value
lb	Lower bound
ub	Upper bound
plb	Lower probability bound
pub	Upper probability bound
dec	Number of decimals to show

84 radiant

Details

See http://vnijs.github.io/radiant/quant/prob_calc.html for an example in Radiant

publishers

Comic publishers

Description

Comic publishers

Usage

```
data(publishers)
```

Format

A data frame with 3 rows and 2 variables

Details

List of comic publishers from http://stat545-ubc.github.io/bit001_dplyr-cheatsheet.

httml. The dataset is used to illustrate data merging / joining. Description provided in attr(publishers, "description")

radiant

radiant

Description

radiant

Launch Radiant in the default browser

Usage

```
radiant(app = c("analytics", "marketing", "quant", "base"))
```

Arguments

арр

Choose the app to run. One of "base", "quant", "analytics", "marketing". "analytics" is the default

Details

See http://vnijs.github.io/radiant for documentation and tutorials

```
if (interactive()) {
  radiant("base")
  radiant("quant")
  radiant("marketing")
  radiant("analytics")
}
```

recode 85

recode	Exporting the recode function from the car package	

Description

Exporting the recode function from the car package

|--|

Description

Linear regression using OLS

Usage

```
regression(dataset, dep_var, indep_var, int_var = "", check = "", dec = 3,
   data_filter = "")
```

Arguments

dataset	Dataset name (string). This can be a dataframe in the global environment or an element in an r_data list from Radiant
dep_var	The response variable in the regression
indep_var	Explanatory variables in the regression
int_var	Interaction terms to include in the model
check	"standardize" to see standardized coefficient estimates. "stepwise" to apply stepwise selection of variables in estimation
dec	Number of decimals to show
data_filter	Expression entered in, e.g., Data > View to filter the dataset in Radiant. The expression should be a string (e.g., "price > 10000")

Details

See http://vnijs.github.io/radiant/quant/regression.html for an example in Radiant

Value

A list of all variables used in regression as an object of class regression

See Also

```
summary.regression to summarize results plot.regression to plot results predict.regression to generate predictions
```

```
result <- regression("diamonds", "price", c("carat","clarity"))
result <- regression("diamonds", "price", c("carat","clarity"), check = "standardize")</pre>
```

86 rndnames

re	n	\sim	+	Δ	r

Repeat simulation

Description

Repeat simulation

Usage

```
repeater(nr = 12, vars = "", grid = "", seed = "", name = "",
    sim = "")
```

Arguments

nr	Number times to repeat the simulation
vars	Variables to use in repeated simulation
grid	Expression to use in grid search for constants
seed	To repeat a simulation with the same randomly generated values enter a number into Random seed input box.
name	To save the simulated data for further analysis specify a name in the Sim name input box. You can then investigate the simulated data by choosing the specified name from the Datasets dropdown in any of the other Data tabs.
sim	Return value from the simulater function

Examples

rndnames

100 random names

Description

100 random names

Usage

```
data(rndnames)
```

Format

A data frame with 100 rows and 2 variables

Details

A list of 100 random names generated by ${\tt listofrandomnames.com}$. Description provided in attr(rndnames,"description")

sample_size 87

Description

Sample size calculation

Usage

```
sample_size(type = "mean", err_mean = 2, sd_mean = 10, err_prop = 0.1,
p_prop = 0.5, conf_lev = 1.96, incidence = 1, response = 1,
pop_correction = "no", pop_size = 1000000)
```

Arguments

type	Choose "mean" or "proportion"
err_mean	Acceptable Error for Mean
sd_mean	Standard deviation for Mean
err_prop	Acceptable Error for Proportion
p_prop	Initial proportion estimate for Proportion
conf_lev	Confidence level
incidence	Incidence rate (i.e., fraction of valid respondents)
response	Response rate
pop_correction	Apply correction for population size ("yes", "no")
pop_size	Population size

Details

See http://vnijs.github.io/radiant/quant/sample_size.html for an example in Radiant

Value

A list of variables defined in sample_size as an object of class sample_size

See Also

```
summary.sample_size to summarize results
```

```
result <- sample_size(type = "mean", err_mean = 2, sd_mean = 10)</pre>
```

88 save_factors

sampling

Simple random sampling

Description

Simple random sampling

Usage

```
sampling(dataset, var, sample_size, data_filter = "")
```

Arguments

dataset Dataset name (string). This can be a dataframe in the global environment or an

element in an r_data list from Radiant

var The variable to sample from sample_size Number of units to select

expression should be a string (e.g., "price > 10000")

Details

See http://vnijs.github.io/radiant/quant/sampling.html for an example in Radiant

Value

A list of variables defined in sampling as an object of class sampling

See Also

```
summary.sampling to summarize results
```

Examples

```
result <- sampling("rndnames", "Names", 10)</pre>
```

save_factors

Save factor scores to active dataset

Description

Save factor scores to active dataset

Usage

```
save_factors(object)
```

Arguments

object Return value from full_factor

save_membership 89

Details

See $http://vnijs.github.io/radiant/marketing/full_factor.html \ for \ an \ example \ in \ Radiant$

Examples

```
result <- full_factor("diamonds",c("price","carat","table"))
save_factors(result)
head(diamonds)</pre>
```

save_membership

Add a cluster membership variable to the active dataset

Description

Add a cluster membership variable to the active dataset

Usage

```
save_membership(object)
```

Arguments

object

Return value from kmeans_clus

Details

See http://vnijs.github.io/radiant/marketing/kmeans_clus.html for an example in Radiant

See Also

```
kmeans_clus to generate results
summary.kmeans_clus to summarize results
plot.kmeans_clus to plot results
```

```
result <- kmeans_clus("shopping", vars = c("v1:v6"))
save_membership(result)
head(shopping)</pre>
```

90 sd_rm

sdp_rm

 $Standard\ deviation\ for\ the\ population\ na.rm = TRUE$

Description

Standard deviation for the population na.rm = TRUE

Usage

```
sdp_rm(x)
```

Arguments

Х

Input variable

Value

Standard deviation for the population

Examples

```
sdp_rm(rnorm(100))
```

sd_rm

 $Standard\ deviation\ with\ na.rm = TRUE$

Description

Standard deviation with na.rm = TRUE

Usage

```
sd_rm(x)
```

Arguments

Χ

Input variable

Value

Standard deviation

```
sd_rm(rnorm(100))
```

serr 91

serr

Standard error

Description

Standard error

Usage

```
serr(x, na.rm = TRUE)
```

Arguments

x Input variable

na.rm

If TRUE missing values are removed before calculation

Value

Standard error

Examples

```
serr(rnorm(100))
```

set_class

Alias used to set the class for analysis function return

Description

Alias used to set the class for analysis function return

Usage

```
set_class()
```

```
foo <- function(x) x^2 %>% set_class(c("foo", class(.)))
```

92 show_duplicated

shopping

Shopping attitudes

Description

Shopping attitudes

Usage

```
data(shopping)
```

Format

A data frame with 20 rows and 7 variables

Details

Attitudinal data on shopping for 20 consumers. Description provided in attr(shopping, "description")

show_duplicated

Show all rows with duplicated values (not just the first or last)

Description

Show all rows with duplicated values (not just the first or last)

Usage

```
show_duplicated(tbl, ...)
```

Arguments

Data frame to add transformed variables toVariables used to evaluate row uniqueness

Details

If an entire row is duplicated use "duplicated" to show only one of the duplicated rows. When using a subset of variables to establish uniqueness it may be of interest to show all rows that have (some) duplicate elements

```
bind_rows(mtcars, mtcars[c(1,5,7),]) %>%
    show_duplicated(mpg, cyl)
bind_rows(mtcars, mtcars[c(1,5,7),]) %>%
    show_duplicated
```

sig_stars 93

sig_stars	Add stars '***' to a data.frame (from broom's 'tidy' function) based
	on p.values

Description

Add stars '***' to a data.frame (from broom's 'tidy' function) based on p.values

Usage

```
sig_stars(pval)
```

Arguments

pval

Vector of p-values

Details

Add stars to output from broom's 'tidy' function

Value

A vector of stars

Examples

```
sig_stars(c(.0009, .049, .009, .4, .09))
```

simulater

Simulate data for decision analysis

Description

Simulate data for decision analysis

Usage

```
simulater(const = "", norm = "", unif = "", discrete = "", binom = "",
  sequ = "", form = "", seed = "", name = "", nr = 1000, dat = NULL)
```

second is the maximum value)

Arguments

const	A string listing the constants to include in the analysis (e.g., "cost = 3; size = 4")
norm	A string listing the normally distributed random variables to include in the analysis (e.g., "demand 2000 1000" where the first number is the mean and the second is the standard deviation)
unif	A string listing the uniformly distributed random variables to include in the analysis (e.g., "demand 0 1" where the first number is the minimum value and the

94 single_mean

discrete	A string listing the random variables with a discrete distribution to include in the analysis (e.g., "price 5 .3 8 .7" where for each pair of numbers the first is the value and the second the probability
binom	A string listing the random variables with a binomail distribution to include in the analysis (e.g., "crash 100 .01") where the first number is the number of trials and the second is the probability of success)
sequ	A string listing the start and end for a sequence to include in the analysis (e.g., "trend 1 100 1"). The number of 'steps' is determined by the number of simulations.
form	A string with the formula to evaluate (e.g., "profit = demand * (price - cost)")
seed	To repeat a simulation with the same randomly generated values enter a number into Random seed input box.
name	To save the simulated data for further analysis specify a name in the Sim name input box. You can then investigate the simulated data by choosing the specified name from the Datasets dropdown in any of the other Data tabs.
nr	Number of simulation runs
dat	Data list from previous simulation. Used by repeater function

Details

See http://vnijs.github.io/radiant/quant/simulater.html for an example in Radiant

Value

A data.frame with the created variables

See Also

```
summary.simulater to summarize results
plot.simulater to plot results
```

Examples

single_mean

Compare a sample mean to a population mean

Description

Compare a sample mean to a population mean

Usage

```
single_mean(dataset, var, comp_value = 0, alternative = "two.sided",
  conf_lev = 0.95, dec = 3, data_filter = "")
```

single_prop 95

Arguments

dataset Dataset name (string). This can be a dataframe in the global environment or an

element in an r_data list from Radiant

var The variable selected for the mean comparison comp_value Population value to compare to the sample mean

alternative The alternative hypothesis ("two.sided", "greater", or "less")

conf_lev Span for the confidence interval dec Number of decimals to show

data_filter Expression entered in, e.g., Data > View to filter the dataset in Radiant. The

expression should be a string (e.g., "price > 10000")

Details

See http://vnijs.github.io/radiant/quant/single_mean.html for an example in Radiant

Value

A list of variables defined in single_mean as an object of class single_mean

See Also

```
summary.single_mean to summarize results
plot.single_mean to plot results
```

Examples

```
single_mean("diamonds", "price")
```

single_prop Compare a sample proportion to a population proportion

Description

Compare a sample proportion to a population proportion

Usage

```
single_prop(dataset, var, lev = "", comp_value = 0.5,
   alternative = "two.sided", conf_lev = 0.95, dec = 3, data_filter = "")
```

Arguments

dataset Dataset name (string). This can be a dataframe in the global environment or an

element in an r_data list from Radiant

var The variable selected for the proportion comparison

lev The factor level selected for the proportion comparison

comp_value Population value to compare to the sample proportion

alternative The alternative hypothesis ("two.sided", "greater", or "less")

96 square

conf_lev Span of the confidence interval dec Number of decimals to show

expression should be a string (e.g., "price > 10000")

Details

See http://vnijs.github.io/radiant/quant/single_prop.html for an example in Radiant

Value

A list of variables used in single_prop as an object of class single_prop

See Also

```
summary.single_prop to summarize the results
plot.single_prop to plot the results
```

Examples

```
result <- single_prop("diamonds","cut")
result <- single_prop("diamonds","clarity", lev = "IF", comp_value = 0.05)</pre>
```

skew

Exporting the skew function from the psych package

Description

Exporting the skew function from the psych package

square

Calculate square of a variable

Description

Calculate square of a variable

Usage

```
square(x)
```

Arguments

x Input variable

Value

x^2

sshh 97

sshh

Hide warnings and messages and return invisible

Description

Hide warnings and messages and return invisible

Usage

```
sshh(...)
```

Arguments

... Inputs to keep quite

Details

Adapted from http://www.onthelambda.com/2014/09/17/fun-with-rprofile-and-customizing-r-startup/

Examples

```
sshh( library(dplyr) )
```

sshhr

Hide warnings and messages and return result

Description

Hide warnings and messages and return result

Usage

```
sshhr(...)
```

Arguments

... Inputs to keep quite

Details

Adapted from http://www.onthelambda.com/2014/09/17/fun-with-rprofile-and-customizing-r-startup/

```
sshhr( library(dplyr) )
```

98 state_init

standardize

Standardize

Description

Standardize

Usage

```
standardize(x)
```

Arguments

Х

Input variable

Value

If x is a numberic variable return center(x) / mean(x)

state_init

Set initial value for shiny input

Description

Set initial value for shiny input

Usage

```
state_init(inputvar, init = "")
```

Arguments

inputvar

Name shiny input

init

Initial value to use if state value for input not set

Details

Useful for radio button or checkbox

Value

value for inputvar

See Also

```
state_single
state_multiple
copy_from
```

state_multiple 99

Examples

```
r_state <<- list()
state_init("test")
state_init("test",0)
r_state$test <- c("a","b")
state_init("test",0)
shiny::radioButtons("rb", label = "Button:", c("a","b"), selected = state_init("rb", "a"))
r_state$rb <- "b"
shiny::radioButtons("rb", label = "Button:", c("a","b"), selected = state_init("rb", "a"))
rm(r_state)</pre>
```

state_multiple

Set initial values for shiny input from a list of values

Description

Set initial values for shiny input from a list of values

Usage

```
state_multiple(inputvar, vals, init = character(0))
```

Arguments

inputvar Name shiny input

vals Possible values for inputvar

init Initial value to use if state value for input not set

Details

Useful for select input with multiple = TRUE and when you want to use inputs selected for another tool (e.g., pre_factor and full_factor or hier_clus and kmeans_clus in Radiant)

Value

value for inputvar

See Also

```
state_init
state_single
copy_from
```

state_single

Examples

```
r_state <- list()
state_multiple("test",1:10,1:3)
r_state$test <- 8:10
state_multiple("test",1:10,1:3)
shiny::selectInput("sim", label = "Select:", c("a","b"),
    selected = state_multiple("sim", c("a","b")), multiple = TRUE)
r_state$sim <- c("a","b")
shiny::selectInput("sim", label = "Select:", c("a","b"),
    selected = state_single("sim", c("a","b")), multiple = TRUE)</pre>
```

state_single

Set initial value for shiny input from a list of values

Description

Set initial value for shiny input from a list of values

Usage

```
state_single(inputvar, vals, init = character(0))
```

Arguments

inputvar Name shiny input

vals Possible values for inputvar

init Initial value to use if state value for input not set

Details

Useful for select input with multiple = FALSE

Value

value for inputvar

See Also

```
state_init
state_multiple
copy_from
```

```
r_state <- list()
state_single("test",1:10,1)
r_state$test <- 8
state_single("test",1:10,1)
shiny::selectInput("si", label = "Select:", c("a","b"), selected = state_single("si"))
r_state$si <- "b"
shiny::selectInput("si", label = "Select:", c("a","b"), selected = state_single("si", "b"))</pre>
```

store_glm 101

store_glm Store residuals or predicted values generated in the glm_reg function

Description

Store residuals or predicted values generated in the glm_reg function

Usage

```
store_glm(object, data = object$dataset, type = "residuals",
  name = paste0(type, "_glm"))
```

Arguments

object Return value from glm_reg or predict.glm_reg
data Dataset name

type Residuals ("residuals") or predictions ("predictions"). For predictions the dataset

name must be provided

name Variable name assigned to the residuals or predicted values

Details

```
See http://vnijs.github.io/radiant/quant/glm_reg.html for an example in Radiant
```

Examples

```
result <- glm_reg("titanic", "survived", "pclass", lev = "Yes")
store_glm(result)</pre>
```

store_reg Store residuals or predicted values generated in the regression function

Description

Store residuals or predicted values generated in the regression function

Usage

```
store_reg(object, data = object$dataset, type = "residuals",
  name = paste0(type, "_reg"))
```

Arguments

object	Return value from	regression	or predict.regression
object	Return value from	regression	or predict.regression

data Dataset name

type Residuals ("residuals") or predictions ("predictions"). For predictions the dataset

name must be provided

name Variable name assigned to the residuals or predicted values

Details

See http://vnijs.github.io/radiant/quant/regression.html for an example in Radiant

Examples

```
result <- regression("diamonds", "price", c("carat","clarity"))
store_reg(result)</pre>
```

summary.compare_means Summary method for the compare_means function

Description

Summary method for the compare_means function

Usage

```
## S3 method for class 'compare_means'
summary(object, show = FALSE, ...)
```

Arguments

object Return value from compare_means
show Show additional output (i.e., t.value, df, and confidence interval)

... further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/quant/compare_means.html for an example in Radiant

See Also

```
compare_means to calculate results
plot.compare_means to plot results
```

```
result <- compare_means("diamonds","cut","price")
summary(result)
result <- diamonds %>% tbl_df %>% compare_means("x","y")
summary(result)
result <- diamonds %>% tbl_df %>% group_by(cut) %>% compare_means("x",c("x","y"))
summary(result)
```

summary.compare_props Summary method for the compare_props function

Description

Summary method for the compare_props function

Usage

```
## S3 method for class 'compare_props'
summary(object, show = FALSE, ...)
```

Arguments

object Return value from compare_props

show Show additional output (i.e., chisq.value, df, and confidence interval)

... further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/quant/compare_props.html for an example in Radiant

See Also

```
compare_props to calculate results
plot.compare_props to plot results
```

Examples

```
result <- compare_props("titanic", "pclass", "survived")
summary(result)
titanic %>% compare_props("pclass", "survived") %>% summary
```

summary.conjoint

Summary method for the conjoint function

Description

Summary method for the conjoint function

Usage

```
## S3 method for class 'conjoint'
summary(object, mc_diag = FALSE, ...)
```

Arguments

object Return value from conjoint
mc_diag Shows multicollinearity diagnostics.

... further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/marketing/conjoint.html for an example in Radiant

See Also

```
conjoint to generate results plot.conjoint to plot results
```

Examples

```
result <- conjoint("mp3", dep_var = "Rating", indep_var = "Memory:Shape")
summary(result, mc_diag = TRUE)
mp3 %>% conjoint(dep_var = "Rating", indep_var = "Memory:Shape") %>% summary(., mc_diag = TRUE)
```

```
summary.conjoint_profiles
```

Summary method for the conjoint_profiles function

Description

Summary method for the conjoint_profiles function

Usage

```
## S3 method for class 'conjoint_profiles'
summary(object, ...)
```

Arguments

object Return value from conjoint_profiles
... further arguments passed to or from other methods.

Details

See http://vnijs.github.io/radiant/marketing/conjoint_profiles.html for an example in Radiant

See Also

conjoint_profiles to calculate results

summary.correlation_ 105

summary.correlation_ Summary method for the correlation function

Description

Summary method for the correlation function

Usage

```
## S3 method for class 'correlation_'
summary(object, cutoff = 0, covar = FALSE, ...)
```

Arguments

object Return value from correlation

cutoff Show only corrlations larger than the cutoff in absolute value. Default is a cutoff of 0

covar Show the covariance matrix (default is FALSE)

... further arguments passed to or from other methods.

Details

See http://vnijs.github.io/radiant/quant/correlation.html for an example in Radiant

See Also

```
correlation to calculate results plot.correlation_ to plot results
```

Examples

```
result <- correlation("diamonds",c("price","carat","clarity"))
summary(result, cutoff = .3)
diamonds %>% correlation("price:clarity") %>% summary
```

summary.cross_tabs

Summary method for the cross_tabs function

Description

Summary method for the cross_tabs function

Usage

```
## S3 method for class 'cross_tabs'
summary(object, check = "", ...)
```

106 summary.dtree

Arguments

object Return value from cross_tabs

check Show table(s) for variables var1 and var2. "observed" for the observed frequen-

cies table, "expected" for the expected frequencies table (i.e., frequencies that would be expected if the null hypothesis holds), "chi_sq" for the contribution to the overall chi-squared statistic for each cell (i.e., (o - e)^2 / e), "dev_std" for the standardized differences between the observed and expected frequencies (i.e., (o - e) / sqrt(e)), and "dev_perc" for the percentage difference between the

observed and expected frequencies (i.e., (o - e) / e)

. . . further arguments passed to or from other methods.

Details

See http://vnijs.github.io/radiant/quant/cross_tabs.html for an example in Radiant

See Also

```
cross_tabs to calculate results
plot.cross_tabs to plot results
```

Examples

```
result <- cross_tabs("newspaper", "Income", "Newspaper")
summary(result, check = c("observed","expected","chi_sq"))
newspaper %>% cross_tabs("Income", "Newspaper") %>% summary("observed")
```

summary.dtree

Summary method for the dree function

Description

Summary method for the dree function

Usage

```
## S3 method for class 'dtree'
summary(object, ...)
```

Arguments

object Return value from simulater

... further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/quant/dtree.html for an example in Radiant

See Also

```
dtree to generate the results plot.dtree to plot results
```

summary.explore 107

summary.explore

Summary method for the explore function

Description

Summary method for the explore function

Usage

```
## S3 method for class 'explore'
summary(object, top = "fun", ...)
```

Arguments

object Return value from explore
top The variable (type) to display at the top of the table

... further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/base/explore.html for an example in Radiant

See Also

explore to generate summaries

Examples

```
result <- explore("diamonds", "price:x")
summary(result)
result <- explore("diamonds", "price", byvar = "cut", fun = c("length", "skew"))
summary(result)
diamonds %>% explore("price:x") %>% summary
diamonds %>% explore("price", byvar = "cut", fun = c("length", "skew")) %>% summary
```

summary.full_factor

Summary method for the full_factor function

Description

Summary method for the full_factor function

Usage

```
## S3 method for class 'full_factor'
summary(object, cutoff = 0, fsort = FALSE, ...)
```

108 summary.glm_reg

Arguments

```
object Return value from full_factor

cutoff Show only loadings with (absolute) values above cutoff (default = 0)

fsort Sort factor loadings

... further arguments passed to or from other methods
```

Details

```
See http://vnijs.github.io/radiant/marketing/full_factor.html for an example in Radiant
```

See Also

```
full_factor to calculate results plot.full_factor to plot results
```

Examples

```
result <- full_factor("diamonds",c("price","carat","depth","table","x"))
summary(result)
summary(result, cutoff = 0, fsort = FALSE)
summary(result, cutoff = 0, fsort = TRUE)
summary(result, cutoff = .5, fsort = TRUE)
diamonds %>% full_factor(c("price","carat","depth","table","x")) %>% summary
diamonds %>% full_factor(c("price","carat","depth","table","x")) %>% summary(cutoff = .5)
```

summary.glm_reg

Summary method for the glm_reg function

Description

Summary method for the glm_reg function

Usage

```
## $3 method for class 'glm_reg'
summary(object, sum_check = "", conf_lev = 0.95,
  test_var = "", ...)
```

Arguments

object	Return value from glm_reg
sum_check	Optional output or estimation parameters. "rsme" to show the root mean squared error. "sumsquares" to show the sum of squares table. "vif" to show multicollinearity diagnostics. "confint" to show coefficient confidence interval estimates.
conf_lev	Confidence level to use for coefficient and odds confidence intervals (.95 is the default)
test_var	Variables to evaluate in model comparison (i.e., a competing models Chi-squared test)
	further arguments passed to or from other methods

summary.hier_clus 109

Details

See http://vnijs.github.io/radiant/quant/glm_reg.html for an example in Radiant

See Also

```
glm_reg to generate the results
plot.glm_reg to plot the results
predict.glm_reg to generate predictions
plot.glm_predict to plot prediction output
```

Examples

```
result <- glm_reg("titanic", "survived", "pclass", lev = "Yes")
summary(result, test_var = "pclass")
res <- glm_reg("titanic", "survived", c("pclass", "sex"), int_var="pclass:sex", lev="Yes")
summary(res, sum_check = c("vif", "confint", "odds"))
titanic %>% glm_reg("survived", c("pclass", "sex", "age"), lev = "Yes") %>% summary("vif")
```

summary.hier_clus

Summary method for the hier_clus function

Description

Summary method for the hier_clus function

Usage

```
## S3 method for class 'hier_clus'
summary(object, ...)
```

Arguments

object Return value from hier_clus
... further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/marketing/hier_clus.html for an example in Radiant

See Also

```
summary.hier_clus to summarize results
plot.hier_clus to plot results
```

```
result <- hier_clus("shopping", vars = c("v1:v6"))
summary(result)</pre>
```

110 summary.mds

summary.kmeans_clus

Summary method for kmeans_clus

Description

Summary method for kmeans_clus

Usage

```
## S3 method for class 'kmeans_clus'
summary(object, ...)
```

Arguments

object Return value from kmeans_clus

... further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/marketing/kmeans_clus.html for an example in Radiant

See Also

```
kmeans_clus to generate results
plot.kmeans_clus to plot results
save_membership to add cluster membership to the selected dataset
```

Examples

```
result <- kmeans_clus("shopping", vars = c("v1:v6"))
summary(result)
shopping %>% kmeans_clus(vars = c("v1:v6"), nr_clus = 3) %>% summary
```

summary.mds

Summary method for the mds function

Description

Summary method for the mds function

Usage

```
## S3 method for class 'mds'
summary(object, dec = 1, ...)
```

summary.pivotr 111

Arguments

object Return value from mds

dec Rounding to use for output (default = 0). +1 used for coordinates. +2 used for

stress measure. Not currently accessible in Radiant

... further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/marketing/mds.html for an example in Radiant

See Also

```
mds to calculate results plot.mds to plot results
```

Examples

```
result <- mds("city", "from", "to", "distance")
summary(result)
summary(result, dec = 2)
city %>% mds("from", "to", "distance") %>% summary
```

summary.pivotr

Summary method for pivotr

Description

Summary method for pivotr

Usage

```
## S3 method for class 'pivotr'
summary(object, chi2 = FALSE, shiny = FALSE, ...)
```

Arguments

object Return value from pivotr

chi 2 If TRUE calculate the chi-square statistic for the (pivot) table

shiny Did the function call originate inside a shiny app

... further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/base/pivotr.html for an example in Radiant

See Also

```
pivotr to create the pivot-table using dplyr
```

112 summary.pmap

Examples

```
pivotr("diamonds", cvars = "cut") %>% summary
pivotr("diamonds", cvars = "cut") %>% summary
pivotr("diamonds", cvars = "cut:clarity", nvar = "price") %>% summary
```

summary.pmap

Summary method for the pmap function

Description

Summary method for the pmap function

Usage

```
## S3 method for class 'pmap'
summary(object, cutoff = 0, ...)
```

Arguments

```
object Return value from pmap

cutoff Show only loadings with (absolute) values above cutoff (default = 0)

... further arguments passed to or from other methods
```

Details

See http://vnijs.github.io/radiant/marketing/pmap.html for an example in Radiant

See Also

```
pmap to calculate results
plot.pmap to plot results
```

```
result <- pmap("computer","brand","high_end:business")
summary(result)
summary(result, cutoff = .3)
result <- pmap("computer","brand","high_end:dated", pref = c("innovative","business"))
summary(result)
computer %>% pmap("brand","high_end:dated", pref = c("innovative","business")) %>%
summary
```

summary.pre_factor 113

summary.pre_factor

Summary method for the pre_factor function

Description

Summary method for the pre_factor function

Usage

```
## S3 method for class 'pre_factor'
summary(object, ...)
```

Arguments

object Return value from pre_factor

... further arguments passed to or from other methods

Details

```
See http://vnijs.github.io/radiant/marketing/pre_factor.html for an example in Radiant
```

See Also

```
pre_factor to calculate results
plot.pre_factor to plot results
```

Examples

```
result <- pre_factor("diamonds",c("price","carat","table"))
summary(result)
diamonds %>% pre_factor(c("price","carat","table")) %>% summary
result <- pre_factor("computer","high_end:business")
summary(result)</pre>
```

summary.prob_binom

Summary method for the probability calculator function

Description

Summary method for the probability calculator function

Usage

```
## S3 method for class 'prob_binom'
summary(object, type = "values", ...)
```

114 summary.prob_disc

Arguments

object Return value from prob_binom

type Probabilities or values

... further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/quant/prob_calc.html for an example in Radiant

summary.prob_chisq

Summary method for the probability calculator function (Chi-squared distribution)

Description

Summary method for the probability calculator function (Chi-squared distribution)

Usage

```
## S3 method for class 'prob_chisq'
summary(object, type = "values", ...)
```

Arguments

object Return value from prob_chisq

type Probabilities or values

... further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/quant/prob_calc.html for an example in Radiant

summary.prob_disc

Summary method for the probability calculator function (discrete)

Description

Summary method for the probability calculator function (discrete)

Usage

```
## S3 method for class 'prob_disc'
summary(object, type = "values", ...)
```

Arguments

object Return value from prob_disc

type Probabilities or values

... further arguments passed to or from other methods

summary.prob_fdist 115

Details

See http://vnijs.github.io/radiant/quant/prob_calc.html for an example in Radiant

```
summary.prob\_fdist \qquad \textit{Summary method for the probability calculator function (F-distribution)}
```

Description

Summary method for the probability calculator function (F-distribution)

Usage

```
## S3 method for class 'prob_fdist'
summary(object, type = "values", ...)
```

Arguments

object Return value from prob_fdist

type Probabilities or values

... further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/quant/prob_calc.html for an example in Radiant

summary.prob_norm

Summary method for the probability calculator function (normal)

Description

Summary method for the probability calculator function (normal)

Usage

```
## S3 method for class 'prob_norm'
summary(object, type = "values", ...)
```

Arguments

object Return value from prob_norm

type Probabilities or values

... further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/quant/prob_calc.html for an example in Radiant

116 summary.prob_unif

 ${\it summary.prob_tdist} \qquad {\it Summary method for the probability calculator function (t-distribution)}$

Description

Summary method for the probability calculator function (t-distribution)

Usage

```
## S3 method for class 'prob_tdist'
summary(object, type = "values", ...)
```

Arguments

object Return value from prob_tdist

type Probabilities or values

... further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/quant/prob_calc.html for an example in Radiant

summary.prob_unif

Summary method for the probability calculator function (uniform)

Description

Summary method for the probability calculator function (uniform)

Usage

```
## S3 method for class 'prob_unif'
summary(object, type = "values", ...)
```

Arguments

object Return value from prob_unif

type Probabilities or values

... further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/quant/prob_calc.html for an example in Radiant

summary.regression 117

summary.regression

Summary method for the regression function

Description

Summary method for the regression function

Usage

```
## S3 method for class 'regression'
summary(object, sum_check = "", conf_lev = 0.95,
   test_var = "", ...)
```

Arguments

object	Return value from regression
sum_check	Optional output or estimation parameters. "rsme" to show the root mean squared error. "sumsquares" to show the sum of squares table. "vif" to show multicollinearity diagnostics. "confint" to show coefficient confidence interval estimates.
conf_lev	Confidence level used to estimate confidence intervals (.95 is the default)
test_var	Variables to evaluate in model comparison (i.e., a competing models F-test)
• • •	further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/quant/regression.html for an example in Radiant

See Also

```
regression to generate the results

plot.regression to plot results

predict.regression to generate predictions
```

```
result <- regression("diamonds", "price", c("carat","clarity"))
summary(result, sum_check = c("rmse","sumsquares","vif","confint"), test_var = "clarity")
result <- regression("shopping", "v1", c("v2","v3"))
summary(result, test_var = "v2")
shopping %>% regression("v1", "v2:v6") %>% summary
```

118 summary.sample_size

summary.repe	ater
--------------	------

Summarize repeated simulation

Description

Summarize repeated simulation

Usage

```
## S3 method for class 'repeater'
summary(object, sum_vars = "", byvar = "",
fun = "sum_rm", form = "", name = "", ...)
```

Arguments

object	Return value from repeater
sum_vars	(Numerical) variables to summaries
byvar	Variable(s) to group data by before summarizing
fun	Functions to use for summarizing
form	A string with the formula to evaluate (e.g., "profit = demand * (price - cost)")
name	To save the simulated data for further analysis specify a name in the Sim name input box. You can then investigate the simulated data by choosing the specified name from the Datasets dropdown in any of the other Data tabs.
	further arguments passed to or from other methods

summary.sample_size

Summary method for the sample_size function

Description

Summary method for the sample_size function

Usage

```
## S3 method for class 'sample_size'
summary(object, ...)
```

Arguments

object Return value from sample_size

... further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/quant/sample_size for an example in Radiant

summary.sampling 119

See Also

```
sample_size to generate the results
```

Examples

```
result <- sample_size(type = "mean", err_mean = 2, sd_mean = 10)
summary(result)</pre>
```

summary.sampling

Summary method for the sampling function

Description

Summary method for the sampling function

Usage

```
## S3 method for class 'sampling'
summary(object, print_sf = TRUE, ...)
```

Arguments

```
object Return value from sampling

print_sf Print full sampling frame. Default is TRUE

... further arguments passed to or from other methods
```

Details

```
See http://vnijs.github.io/radiant/quant/sampling for an example in Radiant
```

See Also

```
sampling to generate the results
```

```
set.seed(1234)
result <- sampling("rndnames", "Names", 10)
summary(result)</pre>
```

120 summary.single_mean

summary.simulater

Summary method for the simulater function

Description

Summary method for the simulater function

Usage

```
## S3 method for class 'simulater'
summary(object, ...)
```

Arguments

object Return value from simulater
... further arguments passed to or from other methods

Details

 $See \ http://vnijs.github.io/radiant/quant/simulater.html \ for \ an \ example \ in \ Radiant$

See Also

```
simulater to generate the results
plot.simulater to plot results
```

Examples

```
result <- simulater(norm = "demand 2000 1000")
summary(result)</pre>
```

summary.single_mean

Summary method for the single_mean function

Description

Summary method for the single_mean function

Usage

```
## S3 method for class 'single_mean'
summary(object, ...)
```

Arguments

object Return value from single_mean

... further arguments passed to or from other methods

summary.single_prop 121

Details

See http://vnijs.github.io/radiant/quant/single_mean.html for an example in Radiant

See Also

```
single_mean to generate the results
plot.single_mean to plot results
```

Examples

```
result <- single_mean("diamonds","price")
summary(result)
diamonds %>% single_mean("price") %>% summary
```

summary.single_prop

Summary method for the single_prop function

Description

Summary method for the single_prop function

Usage

```
## S3 method for class 'single_prop'
summary(object, ...)
```

Arguments

object Return value from single_prop
... further arguments passed to or from other methods

Details

See http://vnijs.github.io/radiant/quant/single_prop.html for an example in Radiant

See Also

```
single_prop to generate the results plot.single_prop to plot the results
```

```
result <- single_prop("diamonds","clarity", lev = "IF", comp_value = 0.05)
summary(result)
diamonds %>% single_prop("clarity", lev = "IF", comp_value = 0.05) %>% summary
```

superheroes superheroes

sum_rm

 $Sum\ with\ na.rm = TRUE$

Description

Sum with na.rm = TRUE

Usage

 $sum_rm(x)$

Arguments

Х

Input variable

Value

Sum of input values

Examples

```
sum_rm(1:200)
```

superheroes

Super heroes

Description

Super heroes

Usage

data(superheroes)

Format

A data frame with 7 rows and 4 variables

Details

List of super heroes from http://stat545-ubc.github.io/bit001_dplyr-cheatsheet.html. The dataset is used to illustrate data merging / joining. Description provided in attr(superheroes, "description")

test_specs 123

test_specs

Add interaction terms to list of test variables if needed

Description

Add interaction terms to list of test variables if needed

Usage

```
test_specs(test_var, int_var)
```

Arguments

test_var List of variables to use for testing for regression or glm_reg

int_var Interaction terms specified

Details

See http://vnijs.github.io/radiant/quant/regression.html for an example in Radiant

Value

A vector of variables names to test

Examples

```
test_specs("a", c("a:b", "b:c"))
```

the_table

Function to calculate the PW and IW table for conjoint

Description

Function to calculate the PW and IW table for conjoint

Usage

```
the_table(model, dat, indep_var)
```

Arguments

model Tidied model results (broom) output from conjoint passed on by summary.conjoint

dat Conjoint data

indep_var Explanatory variables used in the conjoint regression

Details

See http://vnijs.github.io/radiant/marketing/conjoint.html for an example in Radiant

124 titanic_pred

See Also

```
conjoint to generate results
summary.conjoint to summarize results
plot.conjoint to plot results
```

Examples

```
result <- conjoint(dataset = "mp3", dep_var = "Rating", indep_var = "Memory:Shape")
the_table(result$model, result$dat, result$indep_var)</pre>
```

titanic

Survival data for the Titanic

Description

Survival data for the Titanic

Usage

```
data(titanic)
```

Format

A data frame with 1043 rows and 10 variables

Details

Survival data for the Titanic. Description provided in attr(titanic, "description")

titanic_pred

Predict survival

Description

Predict survival

Usage

```
data(titanic_pred)
```

Format

A data frame with 6 rows and 3 variables

Details

Prediction data.frame for glm_reg based on the Titanic dataset

toothpaste 125

toothpaste

Toothpaste attitudes

Description

Toothpaste attitudes

Usage

```
data(toothpaste)
```

Format

A data frame with 60 rows and 10 variables

Details

Attitudinal data on toothpaste for 60 consumers. Description provided in attr(toothpaste, "description")

varp_rm

Variance for the population na.rm = TRUE

Description

Variance for the population na.rm = TRUE

Usage

```
varp_rm(x)
```

Arguments

Χ

Input variable

Value

Variance for the population

```
varp_rm(rnorm(100))
```

var_rm

var_check Check if main effects for all interaction effects are included in the model If ':' is used to select a range _indep_var_ is updated

Description

Check if main effects for all interaction effects are included in the model If ':' is used to select a range _indep_var_ is updated

Usage

```
var_check(iv, cn, intv = "")
```

Arguments

iv List of explanatory variables provided to _regression_ or _glm_

cn Column names for all explanatory variables in _dat_

intv Interaction terms specified

Details

See http://vnijs.github.io/radiant/quant/regression.html for an example in Radiant

Value

'vars' is a vector of right-hand side variables, possibly with interactions, 'iv' is the list of explanatory variables, and into are interaction terms

Examples

```
var_check("a:d", c("a","b","c","d"))
var_check(c("a", "b"), c("a", "b"), "a:c")
```

var_rm

 $Variance\ with\ na.rm = TRUE$

Description

Variance with na.rm = TRUE

Usage

```
var_rm(x)
```

Arguments

x Input variable

Value

Variance

viewdata 127

Examples

```
var_rm(rnorm(100))
```

viewdata

View data

Description

View data

Usage

```
viewdata(dataset, vars = "", filt = "", rows = NULL, na.rm = FALSE)
```

Arguments

dataset	Name of the dataframe to change
vars	Variables to show (default is all)
filt	Filter to apply to the specified dataset. For example "price > 10000 " if dataset is "diamonds" (default is "")
rows	Select rows in the specified dataset. For example "1:10" for the first 10 rows or " $n()$ - 10 : $n()$ " for the last 10 rows (default is NULL)
na.rm	Remove rows with missing values (default is FALSE)

Details

View, search, sort, etc. your data

Examples

```
if (interactive()) {
  viewdata(mtcars)
  viewdata("mtcars")
  mtcars %>% viewdata
}
```

visualize

Visualize data using ggplot2 http://docs.ggplot2.org/current/

Description

Visualize data using ggplot2 http://docs.ggplot2.org/current/

Usage

```
visualize(dataset, xvar, yvar = "", type = "hist", facet_row = ".",
  facet_col = ".", color = "none", fill = "none", bins = 10,
  smooth = 1, sbar = "mean", check = "", axes = "", alpha = 0.5,
  data_filter = "", shiny = FALSE, custom = FALSE)
```

128 visualize

Arguments

dataset	Dataset name (string). This can be a dataframe in the global environment or an element in an r_data list from Radiant
xvar	One or more variables to display along the X-axis of the plot
yvar	Variable to display along the Y-axis of the plot (default = "none")
type	Type of plot to create. One of Histogram ('hist'), Density ('density'), Scatter ('scatter'), Line ('line'), Bar ('bar'), or Box-plot ('box')
facet_row	Create vertically arranged subplots for each level of the selected factor variable
facet_col	Create horizontally arranged subplots for each level of the selected factor variable
color	Adds color to a scatter plot to generate a heat map. For a line plot one line is created for each group and each is assigned a different color
fill	Group bar, histogram, and density plots by group, each with a different color
bins	Number of bins used for a histogram (1 - 50)
smooth	Adjust the flexibility of the loess line for scatter plots
sbar	Plot an error bar in a scatter plot where the xvar is a factor. Options are "mean" and/or "median". Default is "mean"
check	Add a regression line ("line"), a loess line ("loess"), or jitter ("jitter") to a scatter plot
axes	Flip the axes in a plot ("flip") or apply a log transformation (base e) to the y-axis ("log_y") or the x-axis ("log_x")
alpha	Opacity for plot elements (0 to 1)
data_filter	Expression used to filter the dataset. This should be a string (e.g., "price > 10000 ")
shiny	Logical (TRUE, FALSE) to indicate if the function call originate inside a shiny app
custom	Logical (TRUE, FALSE) to indicate if ggplot object (or list of ggplot objects) should be returned. This opion can be used to customize plots (e.g., add a title, change x and y labels, etc.). See examples and http://docs.ggplot2.org/for options.

Details

See http://vnijs.github.io/radiant/base/visualize.html for an example in Radiant

Value

Generated plots

```
visualize("diamonds", "carat", "price", type = "scatter", check = "loess")
visualize("diamonds", "price:x", type = "hist")
visualize("diamonds", "carat:x", yvar = "price", type = "scatter")
visualize(dataset = "diamonds", yvar = "price", xvar = "carat", type = "scatter", custom = TRUE) +
    ggtitle("A scatterplot") + xlab("price in $")
visualize(dataset = "diamonds", xvar = "price:carat", custom = TRUE) %>%
{.[[1]] + ggtitle("A histogram") + xlab("price in $")}
diamonds %>% visualize(c("price", "carat", "depth"), type = "density")
```

win_launcher 129

win_launcher

Create a launcher and updater for Windows (.bat)

Description

Create a launcher and updater for Windows (.bat)

Usage

```
win_launcher(app = c("analytics", "marketing", "quant", "base"))
```

Arguments

арр

App to run when the desktop icon is double-clicked ("analytics", "marketing", "quant", or "base"). Default is "analytics"

Details

On Windows a file named 'radiant.bat' and one named 'update_radiant.bat' will be put on the desktop. Double-click the file to launch the specified Radiant app or update Radiant to the latest version

```
if (interactive()) {
   if (Sys.info()["sysname"] == "Windows") {
      win_launcher()
      fn <- paste0(Sys.getenv("USERPROFILE") ,"/Desktop/radiant.bat")
      if (!file.exists(fn))
          stop("Windows launcher not created")
      else
          unlink(fn)
   }
}</pre>
```

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