Package 'radiant.data'

June 28, 2016

```
Title Business Analytics using R and Shiny
Version 0.5.1
Date 2016-6-27
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 (>= 2.0.0),
      lubridate (>= 1.5.0),
      tidyr (>= 0.4.1),
      dplyr (>= 0.5),
Imports broom (>= 0.4.0),
      car (>= 2.1.1),
      gridExtra (\geq 2.0.0),
      knitr (>= 1.13),
      rmarkdown(>= 0.9.5),
      markdown (>= 0.7.7),
      pryr (>= 0.1.2),
      shiny (>= 0.13.2),
     jsonlite (>= 0.9.17),
      shinyAce (>= 0.2.1),
      psych (>= 1.5.8),
      DT (>= 0.1.55),
      readr (>= 0.2.2),
      scales (>= 0.3.0),
      curl (>= 0.9.4),
      rstudioapi (>= 0.5),
      import (>= 1.1.0),
      base64enc,
      methods
Suggests devtools (>= 1.8.0),
      testthat (>= 0.10.0),
      covr (>= 1.2.0)
URL https://github.com/radiant-rstats/radiant, http://vnijs.github.io/radiant/
BugReports https://github.com/radiant-rstats/radiant/issues
License AGPL-3 | file LICENSE
LazyData true
```

RoxygenNote 5.0.1

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add_class

Convenience function to add a class

Description

Convenience function to add a class

Usage

```
add_class(x, cl)
```

Arguments

x Object

cl Vector of class labels to add

Examples

```
foo <- "some text" %>% add_class("text")
foo <- "some text" %>% add_class(c("text", "another class"))
```

as_character

Wrapper for as.character

Description

Wrapper for as.character

Usage

```
as_character(x)
```

Arguments

Χ

Input vector

as_distance 5

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

Examples

```
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

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

6 as_dmy_hms

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

Χ

Input variable

Value

Date-time variable of class Date

Examples

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

as_dmy_hms

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

Description

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

Usage

```
as_dmy_hms(x)
```

Arguments

Χ

Input variable

Value

Date-time variable of class Date

as_duration 7

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

Wrapper for as.factor

Description

Wrapper for as.factor

Usage

```
as_factor(x)
```

Arguments

Х

Input vector

8 as_hms

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

Examples

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

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

Х

Input variable

Value

Time variable of class Period

as_integer 9

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

Examples

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

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

10 as_mdy_hm

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

Х

Input variable

Value

Date-time variable of class Date

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

as_mdy_hms 11

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

Χ

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

Χ

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"))
```

12 as_ymd_hm

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

x

Input variable

Value

Date-time variable of class Date

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

as_ymd_hms 13

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")

14 changedata

center

Description

Center

Usage

center(x)

Arguments

Х

Input variable

Center

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

ci_label 15

ci_label

Labels for confidence intervals

Description

Labels for confidence intervals

Usage

```
ci_label(alt = "two.sided", cl = 0.95)
```

Arguments

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

cl Confidence level

Value

A character vector with labels for a confidence interval

Examples

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

ci_perc

Values at confidence levels

Description

Values at confidence levels

Usage

```
ci_perc(dat, alt = "two.sided", cl = 0.95)
```

Arguments

dat Data

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

cl Confidence level

Value

A vector with values at a confidence level

16 combinedata

Examples

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

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 = "", add = "", 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'

add Variables to add from '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 html for further details

name Name for the combined dataset

Details

See http://radiant-rstats.github.io/docs/data/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'

copy_all 17

Examples

```
avengers %>% combinedata(superheroes, type = "bind_cols")
combinedata("avengers", "superheroes", type = "bind_cols")
avengers %>% combinedata(superheroes, type = "bind_rows")
avengers %>% combinedata(superheroes, add = "publisher", type = "bind_rows")
```

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.data)
```

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

18 dfround

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

Examples

```
copy_from(radiant.data, getdata)
```

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))
```

dfround

Round double in a data.frame to a specified number of decimal places

Description

Round double in a data.frame to a specified number of decimal places

Usage

```
dfround(tbl, dec = 3)
```

Arguments

tbl Data.frame

dec Number of decimal places

diamonds 19

Value

Data.frame for viewing

Examples

```
data.frame(x = c("a","b"), y = c(1L, 2L), z = c(-0.0005, 3.1)) %>% dfround(dec = 3)
```

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

Χ

Input variable

Value

Logical. TRUE is there is variability

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

20 explore

Description

Explore data

Usage

```
explore(dataset, vars = "", byvar = "", fun = c("mean_rm", "sd_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://radiant-rstats.github.io/docs/data/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"))
```

factorizer 21

factorizer

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

filterdata

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

22 flip

find_dropbox

Find a users dropbox directory

Description

Find a users dropbox directory

Usage

```
find_dropbox(folder = 1)
```

Arguments

folder

If multiple folders are present select which one to use. The first folder listed is used by default.

Value

Path to users personal dropbox directory

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://radiant-rstats.github.io/docs/data/explore.html for an example in Radiant

See Also

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

formatdf 23

Examples

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

formatdf

Format a data.frame with a specified number of decimal places

Description

Format a data.frame with a specified number of decimal places

Usage

```
formatdf(tbl, dec = 3, perc = FALSE, mark = "")
```

Arguments

tbl Data.frame

dec Number of decimal places

perc Display numbers as percentages (TRUE or FALSE)

mark Thousand separator

Value

Data.frame for printing

Examples

```
data.frame(x = c("a","b"), y = c(1L, 2L), z = c(-0.0005, 3)) %>% formatdf(dec = 3) data.frame(x = c(1L, 2L), y = c(0.05, 0.8)) %>% formatdf(dec = 2, perc = TRUE)
```

formatnr

Format a number with a specified number of decimal places, thousand sep, and a symbol

Description

Format a number with a specified number of decimal places, thousand sep, and a symbol

Usage

```
formatnr(x, sym = "", dec = 2, perc = FALSE, mark = ",")
```

24 getclass

Arguments

X	Number or vector
sym	Symbol to use

dec Number of decimal places

perc Display number as a percentage

mark Thousand separator

Value

Character (vector) in the desired format

Examples

```
formatnr(2000, "$")
formatnr(2000, dec = 4)
formatnr(.05, perc = TRUE)
formatnr(c(.1, .99), perc = TRUE)
formatnr(data.frame(a = c(.1, .99)), perc = TRUE)
formatnr(data.frame(a = 1000), sym = "$", dec = 0)
```

getclass

Get variable class

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

```
getclass(mtcars)
```

getdata 25

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)

Value

Data.frame with specified columns and rows

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

26 install_webshot

glance

Exporting the glance from broom

Description

Exporting the glance from broom

indexr

Find index corrected for missing values and filters

Description

Find index corrected for missing values and filters

Usage

```
indexr(dataset, vars = "", filt = "")
```

Arguments

dataset Dataset name

vars Variables to select

filt Data filter

install_webshot

Install webshot and phantomjs

Description

Install webshot and phantomjs

Usage

```
install_webshot()
```

inverse 27

inverse

Calculate inverse of a variable

Description

Calculate inverse of a variable

Usage

```
inverse(x)
```

Arguments

Х

Input variable

Value

1/x

is_empty

Is a character variable defined

Description

Is a character variable defined

Usage

```
is\_empty(x, empty = "\s*")
```

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

is_string

Examples

```
is_empty("")
is_empty(NULL)
is_empty(NA)
is_empty(c())
is_empty("none", empty = "none")
is_empty("")
is_empty(" ")
is_empty(" something ")
```

is_not

Convenience function for is.null or is.na

Description

Convenience function for is.null or is.na

Usage

```
is_not(x)
```

Arguments

Х

Input

Examples

```
is_not(NA)
is_not(NULL)
is_not(c())
```

is_string

Is input a string?

Description

Is input a string?

Usage

```
is_string(x)
```

Arguments

Х

Input

Details

Is input a string

iterms 29

Value

TRUE if string, else FALSE

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 = ".")
```

kurtosi

Exporting the kurtosi function from the psych package

Description

Exporting the kurtosi function from the psych package

30 In

level_list

Generate list of levels and unique values

Description

Generate list of levels and unique values

Usage

```
level_list(dat, ...)
```

Arguments

dat A data.frame

... Unquoted variable names to evaluate

Examples

```
data.frame(a = c(rep("a",5),rep("b",5)), b = c(rep(1,5),6:10)) %>% level_list level_list(mtcars, mpg, cyl)
```

ln

Natural log

Description

Natural log

Usage

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

Arguments

x Input variable

na.rm Remove missing values (default is TRUE)

Value

Natural log of vector

```
ln(runif(10,1,2))
```

loadcsv 31

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, .csv = FALSE, header = TRUE, sep = ",", dec = ".",
  saf = TRUE, safx = 20)
```

Arguments

fn	File name string
.csv	Use read.csv instead of read_csv to load file (default is FALSE)
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

|--|

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

32 loadrda_url

Value

Data.frame with (some) variables converted to factors

loadr

Load an rda or rds file and add it to the radiant data list (r_data) if available

Description

Load an rda or rds file and add it to the radiant data list (r_data) if available

Usage

```
loadr(fn, objname = "")
```

Arguments

fn File name and path as a string. Extension must be either rda or rds

objname Name to use for the data.frame. Defaults to the file name

Value

Data.frame in r_data or in the calling environment

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

make_dt 33

make_dt	Make a pivot tabel in DT	

Description

Make a pivot tabel in DT

Usage

```
make_dt(pvt, format = "none", perc = FALSE, dec = 3, 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)
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://radiant-rstats.github.io/docs/data/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
```

```
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)
```

34 make_expl

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)
```

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

 $See \ http://radiant-rstats.github.io/docs/data/explore.html \ for \ an \ example \ in \ Radiant$

See Also

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

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

make_funs 35

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

Examples

```
make_funs(c("mean", "sum_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

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

36 mean_rm

 \max_rm

 $Max\ with\ na.rm = TRUE$

Description

Max with na.rm = TRUE

Usage

```
\max_{rm(x)}
```

Arguments

Х

Input variable

Value

Maximum value

Examples

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

mean_rm

Mean with na.rm = TRUE

Description

Mean with na.rm = TRUE

Usage

```
mean_rm(x)
```

Arguments

Х

Input variable

Value

Mean value

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

median_rm 37

median_rm

 $Median \ with \ na.rm = TRUE$

Description

Median with na.rm = TRUE

Usage

```
median_rm(x)
```

Arguments

Х

Input variable

Value

Median value

Examples

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

min_rm

 $Min\ with\ na.rm = TRUE$

Description

Min with na.rm = TRUE

Usage

```
min_rm(x)
```

Arguments

Χ

Input variable

Value

Minimum value

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

38 mutate_each

 ${\tt mode_rm}$

 $Mode\ with\ na.rm = TRUE$

Description

Mode with na.rm = TRUE

Usage

 $mode_rm(x)$

Arguments

Х

Input variable

Value

Mode value

Examples

```
mode_rm(diamonds$cut)
```

mutate_each

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

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

normalize 39

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))
```

40 p10

p05

5th percentile

Description

5th percentile

Usage

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

Arguments

Χ

Input variable

na.rm

If TRUE missing values are removed before calculation

Value

5th percentile

Examples

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

p10

10th percentile

Description

10th percentile

Usage

```
p10(x, na.rm = TRUE)
```

Arguments

Х

Input variable

na.rm

If TRUE missing values are removed before calculation

Value

10th percentile

```
p10(rnorm(100))
```

p25 41

p25

25th percentile

Description

25th percentile

Usage

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

Arguments

Χ

Input variable

na.rm

If TRUE missing values are removed before calculation

Value

25th percentile

Examples

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

p75

75th percentile

Description

75th percentile

Usage

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

Arguments

Χ

Input variable

na.rm

If TRUE missing values are removed before calculation

Value

75th percentile

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

42 p95

p90

90th percentile

Description

90th percentile

Usage

```
p90(x, na.rm = TRUE)
```

Arguments

Χ

Input variable

na.rm

If TRUE missing values are removed before calculation

Value

90th percentile

Examples

```
p90(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 43

pivotr	Create a pivot table using dplyr	

Description

Create a pivot table using dplyr

Usage

```
pivotr(dataset, cvars = "", nvar = "None", fun = "mean_rm",
    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, "column" 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://radiant-rstats.github.io/docs/data/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")$tab
result <- pivotr("diamonds", cvars = "cut", nvar = "price")$tab
result <- pivotr("diamonds", cvars = "cut", normalize = "total")$tab</pre>
```

plot.pivotr

plot.character

Don't try to plot strings

Description

Don't try to plot strings

Usage

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

Arguments

x A character returned from a function

... Any additional arguments

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, custom = 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
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://radiant-rstats.github.io/docs/data/pivotr for an example in Radiant

further arguments passed to or from other methods

print.gtable 45

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
```

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, ...)
```

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

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.data

radiant.data

Description

radiant.data

Launch Radiant in the default browser

Usage

```
radiant.data()
```

Details

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

```
radiant.data-deprecated
```

Deprecated function(s) in the radiant.data package

Description

These functions are provided for compatibility with previous versions of radiant. They will eventually be removed.

Usage

```
dfprint(...)
```

Arguments

... Parameters to be passed to the updated functions

Details

dfprint is now a synonym for formatdf nrprint is now a synonym for formatnr

render 47

render

Method to render htmlwidgets

Description

Method to render htmlwidgets

Usage

```
render(object, ...)
```

Arguments

object Object of relevant class to render

... Additional arguments

render.datatables

Method to render DT tabels

Description

Method to render DT tabels

Usage

```
## S3 method for class 'datatables'
render(object, ...)
```

Arguments

object DT table plot

... Additional arguments

saver

Save data.frame as an rda or rds file from Radiant

Description

Save data.frame as an rda or rds file from Radiant

Usage

```
saver(objname, file)
```

Arguments

objname Name of the data.frame

file File name and path as a string. Extension must be either rda or rds

48 sd_rm

Value

Data.frame in r_data

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, na.rm = TRUE)
```

Arguments

x Input variable

na.rm Remove NAs (TRUE or FALSE)

Value

Standard deviation

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

serr 49

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_attr

Alias used to add an attribute (from github version of magrittr)

Description

Alias used to add an attribute (from github version of magrittr)

Usage

```
set_attr()
```

```
foo <- data.frame(price = 1:5) %>% set_attr("desc", "price set in experiment ...")
```

50 show_duplicated

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()
```

Examples

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

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 51

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))
```

skew

Exporting the skew function from the psych package

Description

Exporting the skew function from the psych package

52 sshh

square

Calculate square of a variable

Description

Calculate square of a variable

Usage

```
square(x)
```

Arguments

Χ

Input variable

Value

x^2

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/

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

sshhr 53

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/

Examples

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

standardize

Standardize

Description

Standardize

Usage

```
standardize(x)
```

Arguments

Х

Input variable

Value

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

54 summary.explore

store

Method to store variables in a dataset in Radiant

Description

Method to store variables in a dataset in Radiant

Usage

```
store(object, ...)
```

Arguments

object Object of relevant class that has required information to store
... Additional arguments

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", dec = 3, ...)
```

Arguments

object Return value from explore

top The variable (type) to display at the top of the table

dec Number of decimals to show

... further arguments passed to or from other methods

Details

See http://radiant-rstats.github.io/docs/data/explore.html for an example in Radiant

See Also

explore to generate summaries

```
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.pivotr 55

summary	nivotr
Julilliai y	PIVOCI

Summary method for pivotr

Description

Summary method for pivotr

Usage

```
## S3 method for class 'pivotr'
summary(object, perc = FALSE, dec = 3, chi2 = FALSE,
shiny = FALSE, ...)
```

Arguments

object	Return value from pivotr
perc	Display numbers as percentages (TRUE or FALSE)
dec	Number of decimals to show
chi2	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://radiant-rstats.github.io/docs/data/pivotr.html for an example in Radiant

See Also

pivotr to create the pivot-table using dplyr

Examples

```
pivotr("diamonds", cvars = "cut") %>% summary
pivotr("diamonds", cvars = "cut", tabsort = "-n") %>% summary
pivotr("diamonds", cvars = "cut", tabfilt = "n > 700") %>% summary
pivotr("diamonds", cvars = "cut:clarity", nvar = "price") %>% summary
```

```
sum_rm
```

 $Sum\ with\ na.rm = TRUE$

Description

```
Sum with na.rm = TRUE
```

Usage

```
sum_rm(x)
```

56 table2data

Arguments

x 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")

table2data

Create data.frame from a table

Description

Create data.frame from a table

Usage

```
table2data(dat, freq = tail(colnames(dat), 1))
```

Arguments

dat Data.frame

freq Column name with frequency information

```
data.frame(price = c("$200","$300"), sale = c(10, 2)) %>% table2data
```

tidy 57

tidy

Exporting the tidy from broom

Description

Exporting the tidy from broom

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")

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))
```

58 viewdata

var_rm

 $Variance\ with\ na.rm = TRUE$

Description

Variance with na.rm = TRUE

Usage

```
var_rm(x)
```

Arguments

Х

Input variable

Value

Variance

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

visualize 59

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 = "", comby = FALSE, combx = FALSE,
  type = "hist", facet_row = ".", facet_col = ".", color = "none",
  fill = "none", bins = 10, smooth = 1, fun = "mean", check = "",
  axes = "", alpha = 0.5, data_filter = "", shiny = FALSE,
  custom = 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
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")
comby	Combine yvars in plot (TRUE or FALSE, FALSE is the default)
combx	Combine xvars in plot (TRUE or FALSE, FALSE is the default)
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
fun	Set the summary measure for line and bar plots when the X-variable is a factor (default is "mean"). Also used to plot an error bar in a scatter plot when the X-variable is a factor. Options are "mean" and/or "median"
check	Add a regression line ("line"), a loess line ("loess"), or jitter ("jitter") to a scatter plot

60 weighted.sd

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://radiant-rstats.github.io/docs/data/visualize.html for an example in Radiant

Value

Generated plots

Examples

```
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 = c("cut","clarity"),
    type = "bar", fun = "median")
visualize(dataset = "diamonds", yvar = "price", xvar = c("cut","clarity"),
    type = "line", fun = "max")
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")
visualize(dataset = "diamonds", xvar = "cut", yvar = "price", type = "bar",
    facet_row = "cut", fill = "cut", custom = FALSE)
visualize(dataset = "diamonds", xvar = "cut", yvar = "price", type = "line",
    facet_row = "cut", color = "cut", custom = FALSE)
```

weighted.sd

Weighted standard deviation

Description

Weighted standard deviation

Usage

```
weighted.sd(x, wt, na.rm = TRUE)
```

which.pmax 61

Arguments

x Numeric vector

wt Numeric vector of weights

na.rm Remove missing values (default is TRUE)

Details

Calculated a weighted standard deviation

which.pmax

Returns the index of the (parallel) maxima of the input values

Description

Returns the index of the (parallel) maxima of the input values

Usage

```
which.pmax(...)
```

Arguments

... Numeric or character vectors of the same length

Value

Vector of rankings

Examples

```
which.pmax(1:10, 10:1) which.pmax(2, 10:1)
```

which.pmin

Returns the index of the (parallel) minima of the input values

Description

Returns the index of the (parallel) minima of the input values

Usage

```
which.pmin(...)
```

Arguments

... Numeric or character vectors of the same length

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Value

Vector of rankings

Examples

```
which.pmin(1:10, 10:1) which.pmin(2, 10:1)
```

xtile

Create a quintile (or decile) index

Description

Create a quintile (or decile) index

Usage

```
xtile(x, n, rev = FALSE)
```

Arguments

x Numeric variablen number of bins to create

rev Reverse the order of the xtiles

Details

Same as stata

```
xtile(1:10,5)
xtile(1:10,5, rev = TRUE)
```

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```