

Package ‘radiant.data’

April 5, 2018

Title Data Menu for Radiant: Business Analytics using R and Shiny

Version 0.9.2.2

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Description The Radiant Data menu includes interfaces for loading, saving, viewing, visualizing, summarizing, transforming, and combining data. It also contains functionality to generate reproducible reports of the analyses conducted in the application.

Depends R (>= 3.3.0),
magrittr (>= 1.5),
ggplot2 (>= 2.2.1),
lubridate (>= 1.7.2),
tidyr (>= 0.8.0),
dplyr (>= 0.7.4)

Imports tibble (>= 1.4.2),
rlang (>= 0.2.0),
broom (>= 0.4.3),
car (>= 2.1.3),
grid (>= 3.3.1),
gridExtra (>= 2.0.0),
knitr (>= 1.20),
markdown (>= 0.8),
rmarkdown (>= 1.9),
pryr (>= 0.1.2),
shiny (>= 1.0.5),
jsonlite (>= 1.0),
shinyAce (>= 0.3.0),
psych (>= 1.7.3.21),
DT (>= 0.4),
readr (>= 1.1.1),
readxl (>= 1.0.0),
scales (>= 0.4.0),
curl (>= 2.5),
rstudioapi (>= 0.7),
import (>= 1.1.0),
plotly (>= 4.7.1),
feather (>= 0.3.1),
base64enc,
methods

Suggests DBI (>= 0.7),
 RSQLite (>= 2.0),
 odbc (>= 1.1.4),
 webshot (>= 0.5.0),
 testthat (>= 2.0.0)

URL <https://github.com/radiant-rstats/radiant.data>,
<https://radiant-rstats.github.io/docs>

BugReports <https://github.com/radiant-rstats/radiant.data/issues>

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LazyData true

Encoding UTF-8

RoxygenNote 6.0.1

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<i>add_class</i>	<i>Convenience function to add a class</i>
------------------	--------------------------------------------

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"))
```

<i>as_character</i>	<i>Wrapper for as.character</i>
---------------------	---------------------------------

Description

Wrapper for as.character

Usage

`as_character(x)`

Arguments

- `x` Input vector

as_distance	<i>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</i>
-------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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 between 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	<i>Convert input in day-month-year format to date</i>
--------	-------------------------------------------------------

Description

Convert input in day-month-year format to date

Usage

```
as_dmy(x)
```

Arguments

x	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

x Input variable

Value

Date-time variable of class Date

Examples

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

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

x Input variable

Value

Date-time variable of class Date

Examples

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

as_duration	<i>Wrapper for lubridate's as.duration function. Result converted to numeric</i>
-------------	----------------------------------------------------------------------------------

Description

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

Usage

```
as_duration(x)
```

Arguments

x	Time difference
---	-----------------

as_factor	<i>Wrapper for factor with ordered = FALSE</i>
-----------	------------------------------------------------

Description

Wrapper for factor with ordered = FALSE

Usage

```
as_factor(x, ordered = FALSE)
```

Arguments

x	Input vector
ordered	Order factor levels (TRUE, FALSE)

`as_hm`*Convert input in hour-minute format to time*

Description

Convert input in hour-minute format to time

Usage

```
as_hm(x)
```

Arguments

`x` 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

`x` 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

x Input variable

Value

Integer

Examples

```
as_integer(rnorm(10))
as_integer(letters)
as_integer(as.factor(5:10))
as.integer(as.factor(5:10))
as_integer(c("a","b"))
```

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

x 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

x Input variable

Value

Date-time variable of class Date

Examples

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

as_mdy_hms	<i>Convert input in month-day-year-hour-minute-second format to date-time</i>
------------	-------------------------------------------------------------------------------

Description

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

Usage

```
as_mdy_hms(x)
```

Arguments

x	Input variable
---	----------------

Value

Date-time variable of class Date

Examples

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

as_numeric	<i>Convert variable to numeric avoiding potential issues with factors</i>
------------	---------------------------------------------------------------------------

Description

Convert variable to numeric avoiding potential issues with factors

Usage

```
as_numeric(x)
```

Arguments

x	Input variable
---	----------------

Value

Numeric

Examples

```
as_numeric(rnorm(10))
as_numeric(letters)
as_numeric(as.factor(5:10))
as.numeric(as.factor(5:10))
as_numeric(c("a", "b"))
as_numeric(c("3", "4"))
```

as_tibble	<i>Exporting as_tibble</i>
-----------	----------------------------

Description

Exporting as_tibble

as_ymd	<i>Convert input in year-month-day format to date</i>
--------	-------------------------------------------------------

Description

Convert input in year-month-day format to date

Usage

```
as_ymd(x)
```

Arguments

x	Input variable
---	----------------

Value

Date variable of class Date

Examples

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

as_ymd_hm	<i>Convert input in year-month-day-hour-minute format to date-time</i>
-----------	------------------------------------------------------------------------

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

Examples

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

as_ymd_hms	<i>Convert input in year-month-day-hour-minute-second format to date-time</i>
------------	-------------------------------------------------------------------------------

Description

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

Usage

```
as_ymd_hms(x)
```

Arguments

x	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	<i>Avengers</i>
----------	-----------------

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	<i>Center</i>
--------	---------------

Description

Center

Usage

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

Arguments

x	Input variable
na.rm	If TRUE missing values are removed before calculation

Value

If x is a numeric variable return $x - \text{mean}(x)$

changedata	<i>Change data</i>
------------	--------------------

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

choose_dir	<i>Select a directory. Uses JavaScript on Mac, utils::choose.dir on Windows, and dirname(file.choose()) on Linux</i>
------------	----------------------------------------------------------------------------------------------------------------------

Description

Select a directory. Uses JavaScript on Mac, utils::choose.dir on Windows, and dirname(file.choose()) on Linux

Usage

```
choose_dir(...)
```

Arguments

... Arguments passed to utils::choose.dir on Windows

Value

Path to the directory selected by the user

Examples

```
if (interactive()) {
  choose_dir()
}
```

choose_files	<i>Select files. Uses JavaScript on Mac, utils::choose.files on Windows, and file.choose() on Linux</i>
--------------	---------------------------------------------------------------------------------------------------------

Description

Select files. Uses JavaScript on Mac, utils::choose.files on Windows, and file.choose() on Linux

Usage

```
choose_files(...)
```

Arguments

... Strings used to determine which file types are available for selection (e.g., "csv" or "pdf")

Value

Vector of paths to files selected by the user

Examples

```
if (interactive()) {  
  choose_files("pdf", "csv")  
}
```

ci_label	<i>Labels for confidence intervals</i>
----------	----------------------------------------

Description

Labels for confidence intervals

Usage

```
ci_label(alt = "two.sided", cl = 0.95, dec = 3)
```

Arguments

alt	Type of hypothesis ("two.sided", "less", "greater")
cl	Confidence level
dec	Number of decimals to show

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	<i>Values at confidence levels</i>
---------	------------------------------------

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

Examples

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

combinedata	<i>Combine datasets using dplyr's bind and join functions</i>
-------------	---------------------------------------------------------------

Description

Combine datasets using dplyr's bind and join functions

Usage

```
combinedata(x, y, by = "", add = "", type = "inner_join", name = "",
  data_filter = "", ...)
```

Arguments

x	Dataset (name). This can be a dataframe in the global environment or an element in an <code>r_data</code> list from Radiant
y	Dataset (name) (to combine with 'dataset'. This can be a dataframe in the global environment or an element in an <code>r_data</code> 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 https://radiant-rstats.github.io/docs/data/combine.html for further details
name	Name for the combined dataset
data_filter	Expression used to filter the dataset. This should be a string (e.g., "price > 10000")
...	further arguments passed to or from other methods

Details

See <https://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'

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 deprecated when (if) it is included in <https://github.com/smbache/import>

Examples

```
copy_all(radiant.data)
```

copy_attr	<i>Copy attributes from on object to another</i>
-----------	--------------------------------------------------

Description

Copy attributes from on object to another

Usage

```
copy_attr(to, from, attr)
```

Arguments

to	Object to copy attributes to
from	Object to copy attributes from
attr	Vector of attributes. If missing all attributes will be copied

copy_from	<i>Source for package functions</i>
-----------	-------------------------------------

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 deprecated when (if) it is included in <https://github.com/smbache/import>

Examples

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

cv	<i>Coefficient of variation</i>
----	---------------------------------

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))
```

describe	<i>Show dataset description, if available, in html form in Rstudio viewer or default browser</i>
----------	--------------------------------------------------------------------------------------------------

Description

Show dataset description, if available, in html form in Rstudio viewer or default browser

Usage

```
describe(name)
```

Arguments

name	Dataset name or a dataframe
------	-----------------------------

`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 bundled 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, na.rm = TRUE)
```

Arguments

<code>x</code>	Input variable
<code>na.rm</code>	If TRUE missing values are removed before calculation

Value

Logical. TRUE if there is variability

Examples

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

dtab	<i>Method to create datatables</i>
------	------------------------------------

Description

Method to create datatables

Usage

```
dtab(object, ...)
```

Arguments

object	Object of relevant class to render
...	Additional arguments

See Also

See [dtab.explore](#) to create the an interactivce table from an [explore](#) object
See [dtab.pivotr](#) to create the an interactivce table from a [pivotr](#) object
See [dtab.data.frame](#) to create an interactive table from a data.frame

dtab.character	<i>Create a DT table with bootstrap theme</i>
----------------	-----------------------------------------------

Description

Create a DT table with bootstrap theme

Usage

```
## S3 method for class 'character'  
dtab(...)
```

Arguments

...	Arguments to pass on to dtab.data.frame
-----	-----------------------------------------

Details

View, search, sort, etc. your data. For styling options see <http://rstudio.github.io/DT/functions.html>

Examples

```
dtab("mtcars")
```

dtab.data.frame

Create a DT table with bootstrap theme

Description

Create a DT table with bootstrap theme

Usage

```
## S3 method for class 'data.frame'
dtab(object, vars = "", filt = "", rows = NULL,
      nr = NULL, na.rm = FALSE, dec = 3, filter = "top", pageLength = 10,
      dom = "", style = "bootstrap", rownames = FALSE, ...)
```

Arguments

object	Data.frame to display
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)
nr	Number of rows of data to include in the table
na.rm	Remove rows with missing values (default is FALSE)
dec	Number of decimal places to show. Default is no rounding (NULL)
filter	Show filter in DT table. Options are "none", "top", "bottom"
pageLength	Number of rows to show in table
dom	Table control elements to show on the page. See https://datatables.net/reference/option/dom
style	Table formatting style ("bootstrap" or "default")
rownames	Show data.frame rownames. Default is FALSE
...	Additional arguments

Details

View, search, sort, etc. your data. For styling options see <http://rstudio.github.io/DT/functions.html>

Examples

```
dtab(mtcars)
```

dtab.explore	<i>Make a tabel of summary statistics in DT</i>
--------------	-------------------------------------------------

Description

Make a tabel of summary statistics in DT

Usage

```
## S3 method for class 'explore'
dtab(object, dec = 3, searchCols = NULL, order = NULL,
      pageLength = NULL, ...)
```

Arguments

object	Return value from explore
dec	Number of decimals to show
searchCols	Column search and filter. Used to save and restore state
order	Column sorting. Used to save and restore state
pageLength	Page length. Used to save and restore state
...	further arguments passed to or from other methods

Details

See <https://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

Examples

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

dtab.pivotr

*Make a pivot tabel in DT***Description**

Make a pivot tabel in DT

Usage

```
## S3 method for class 'pivotr'
dtab(object, format = "none", perc = FALSE, dec = 3,
      searchCols = NULL, order = NULL, pageLength = NULL, ...)
```

Arguments

object	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
searchCols	Column search and filter. Used to save and restore state
order	Column sorting. Used to save and restore state
pageLength	Page length. Used to save and restore state
...	further arguments passed to or from other methods

Details

See <https://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

Examples

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

empty_level	<i>Convert categorical variables to factors and deal with empty/missing values (used in pivotr and explore)</i>
-------------	-----------------------------------------------------------------------------------------------------------------

Description

Convert categorical variables to factors and deal with empty/missing values (used in pivotr and explore)

Usage

```
empty_level(x)
```

Arguments

x Categorical variable used in table

Value

Variable with updated levels

explore	<i>Explore data</i>
---------	---------------------

Description

Explore data

Usage

```
explore(dataset, vars = "", byvar = "", fun = c("mean_rm", "sd_rm"),
  top = "fun", tabfilt = "", tabsort = "", nr = NULL,
  data_filter = "", shiny = FALSE)
```

Arguments

dataset	Dataset name (string). This can be a dataframe in the global environment or an element in an <code>r_data</code> list from Radiant
vars	(Numerical) variables to summaries
byvar	Variable(s) to group data by before summarizing
fun	Functions to use for summarizing
top	The variable (type) to display at the top of the table
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")
nr	Number of rows to display
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 <https://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

See [summary.explore](#) to show summaries

Examples

```
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

Convert character to factors as needed

Description

Convert character to factors as needed

Usage

```
factorizer(dat, safx = 30)
```

Arguments

dat	Data frame
safox	Values to levels ratio

Value

Data frame with factors

filterdata	<i>Filter data with user-specified expression</i>
------------	---------------------------------------------------

Description

Filter data with user-specified expression

Usage

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

Arguments

dat	Data frame to filter
filt	Filter expression to apply to the specified dataset (e.g., "price > 10000" if dataset is "diamonds")
drop	Drop unused factor levels after filtering (default is TRUE)

Value

Filtered data frame

find_dropbox	<i>Find a user's Dropbox folder</i>
--------------	-------------------------------------

Description

Find a user's Dropbox folder

Usage

```
find_dropbox(account = 1)
```

Arguments

account	If multiple accounts exist specifies the one to use. By default, the first account listed is used
---------	---------------------------------------------------------------------------------------------------

Value

Path to Dropbox account

find_gdrive	<i>Find a user's Google Drive folder</i>
-------------	------------------------------------------

Description

Find a user's Google Drive folder

Usage

```
find_gdrive()
```

Value

Path to Google Drive folder

find_project	<i>Find a rstudio project directory</i>
--------------	-----------------------------------------

Description

Find a rstudio project directory

Usage

```
find_project(mess = TRUE)
```

Arguments

mess	Show or hide messages (default mess = TRUE)
------	---------------------------------------------

Value

Path to rstudio project directory

fixMS	<i>Replace Windows smart quotes etc.</i>
-------	------------------------------------------

Description

Replace Windows smart quotes etc.

Usage

```
fixMS(text, all = FALSE)
```

Arguments

text	Text to be parsed
all	Should all non-ascii characters be removed (default = FALSE)

`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

<code>expl</code>	Return value from explore
<code>top</code>	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 <https://radiant-rstats.github.io/docs/data/explore.html> for an example in Radiant

See Also

[explore](#) to generate summaries
[dtab.explore](#) to create the DT table

Examples

```
result <- explore("diamonds", "price:x", top = "var")  
result <- explore("diamonds", "price", byvar = "cut", fun = c("length", "skew"), top = "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 = NULL, perc = FALSE, mark = "")
```

Arguments

<code>tbl</code>	Data.frame
<code>dec</code>	Number of decimals to show
<code>perc</code>	Display numbers as percentages (TRUE or FALSE)
<code>mark</code>	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	<i>Format a number with a specified number of decimal places, thousand sep, and a symbol</i>
----------	----------------------------------------------------------------------------------------------

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 = ",")
```

Arguments

x	Number or vector
sym	Symbol to use
dec	Number of decimals to show
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	<i>Get variable class</i>
----------	---------------------------

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	<i>Get data for analysis functions</i>
---------	----------------------------------------

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	<i>Create data.frame summary</i>
------------	----------------------------------

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

ggplotly	<i>Exporting the ggplotly function from the plotly package</i>
----------	----------------------------------------------------------------

Description

Exporting the ggplotly function from the plotly package

glance	<i>Exporting glance from broom</i>
--------	------------------------------------

Description

Exporting glance from broom

indexr	<i>Find index corrected for missing values and filters</i>
--------	------------------------------------------------------------

Description

Find index corrected for missing values and filters

Usage

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

Arguments

dataset	Dataset name
vars	Variables to select
filt	Data filter
cmd	A command used to customize the data

install_webshot	<i>Install webshot and phantomjs</i>
-----------------	--------------------------------------

Description

Install webshot and phantomjs

Usage

```
install_webshot()
```

inverse	<i>Calculate inverse of a variable</i>
---------	----------------------------------------

Description

Calculate inverse of a variable

Usage

```
inverse(x)
```

Arguments

x	Input variable
---	----------------

Value

1/x

is_empty	<i>Is a character variable defined</i>
----------	----------------------------------------

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

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	<i>Convenience function for is.null or is.na</i>
--------	--------------------------------------------------

Description

Convenience function for is.null or is.na

Usage

```
is_not(x)
```

Arguments

x	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

x	Input
---	-------

Details

Is input a string

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

knit_print	<i>Exporting knit_print from knitr</i>
------------	----------------------------------------

Description

Exporting knit_print from knitr

kurtosi	<i>Exporting the kurtosi function from the psych package</i>
---------	--------------------------------------------------------------

Description

Exporting the kurtosi function from the psych package

launch	<i>Launch radiant apps in default browser or Rstudio viewer</i>
--------	-----------------------------------------------------------------

Description

Launch radiant apps in default browser or Rstudio viewer

Usage

```
launch(package = "radiant.data", run = "browser")
```

Arguments

package	Radiant package to start. One of "radiant.data", "radiant.design", "radiant.basics", "radiant.model", "radiant.multivariate", "radiant"
run	Run radiant app in an external browser ("browser"), an Rstudio window ("window"), or in the Rstudio viewer ("viewer")

Details

See <https://radiant-rstats.github.io/docs> for documentation and tutorials

Examples

```
## Not run:
launch()
launch(run = "viewer")
launch(run = "window")
launch(run = "browser")

## End(Not run)
```

level_list	<i>Generate list of levels and unique values</i>
------------	--------------------------------------------------

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	<i>Natural log</i>
----	--------------------

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

Examples

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

loadcsv	<i>Load a csv file with read.csv and read_csv</i>
---------	---------------------------------------------------

Description

Load a csv file with read.csv and read_csv

Usage

```
loadcsv(fn, header = TRUE, sep = ",", dec = ".", n_max = Inf,
        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 ,
n_max	Maximum number of rows to read
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
safox	Values to levels ratio

Value

Data frame with (some) variables converted to factors

loadcsv_url	<i>Load a csv file with from a url</i>
-------------	----------------------------------------

Description

Load a csv file with from a url

Usage

```
loadcsv_url(csv_url, header = TRUE, sep = ",", dec = ".", n_max = Inf,
            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 ,
n_max	Maximum number of rows to read
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

loadr	<i>Load an rds, rda, or csv file and add it to the radiant data list (r_data) if available</i>
-------	------------------------------------------------------------------------------------------------

Description

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

Usage

```
loadr(file, objname = "", rlist = TRUE)
```

Arguments

file	File name and path as a string. Extension must be either rds, rda, or csv
objname	Name to use for the data frame. Defaults to the file name
rlist	If TRUE, uses "r_data" list to store the data.frame. If FALSE, loads data.frame into calling environment

Value

Data frame in r_data or in the calling enviroment

loadrda_url	<i>Load an rda file from a url</i>
-------------	------------------------------------

Description

Load an rda file from a url

Usage

```
loadrda_url(rda_url)
```

Arguments

rda_url	URL for the rda file
---------	----------------------

Value

Data frame

make_funs	<i>Make a list of functions-as-formulas to pass to dplyr</i>
-----------	--------------------------------------------------------------

Description

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

Usage

```
make_funs(x)
```

Arguments

x	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	<i>Generate a variable used to selected a training sample</i>
------------	---------------------------------------------------------------

Description

Generate a variable used to selected a training sample

Usage

```
make_train(n = 0.7, nr = 100, seed = 1234)
```

Arguments

n	Number (or fraction) of observations to label as training
nr	Number of rows in the dataset
seed	Random seed

Value

0/1 variables for filtering

Examples

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

max_rm	<i>Max with na.rm = TRUE</i>
--------	------------------------------

Description

Max with na.rm = TRUE

Usage

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

Arguments

x	Input variable
na.rm	If TRUE missing values are removed before calculation

Value

Maximum value

Examples

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

mean_rm	<i>Mean with na.rm = TRUE</i>
---------	-------------------------------

Description

Mean with na.rm = TRUE

Usage

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

Arguments

x	Input variable
na.rm	If TRUE missing values are removed before calculation

Value

Mean value

Examples

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

median_rm	<i>Median with na.rm = TRUE</i>
-----------	---------------------------------

Description

Median with na.rm = TRUE

Usage

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

Arguments

x	Input variable
na.rm	If TRUE missing values are removed before calculation

Value

Median value

Examples

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

min_rm	<i>Min with na.rm = TRUE</i>
--------	------------------------------

Description

Min with na.rm = TRUE

Usage

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

Arguments

x	Input variable
na.rm	If TRUE missing values are removed before calculation

Value

Minimum value

Examples

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

mode_rm	<i>Mode with na.rm = TRUE</i>
---------	-------------------------------

Description

Mode with na.rm = TRUE

Usage

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

Arguments

x	Input variable
na.rm	If TRUE missing values are removed before calculation

Value

Mode value

Examples

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

month	<i>Add ordered argument to lubridate::month</i>
-------	-------------------------------------------------

Description

Add ordered argument to lubridate::month

Usage

```
month(x, label = FALSE, abbr = TRUE, ordered = FALSE)
```

Arguments

x	Input date vector
label	Month as label (TRUE, FALSE)
abbr	Abbreviate label (TRUE, FALSE)
ordered	Order factor (TRUE, FALSE)

See Also

See the [month](#) function in the lubridate package for additional details

mutate_ext	<i>Add transformed variables to a data frame (NSE)</i>
------------	--------------------------------------------------------

Description

Add tranformed variables to a data frame (NSE)

Usage

```
mutate_ext(.tbl, .funs, ..., .ext = "", .vars = c())
```

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
.vars	A list of columns generated by dplyr::vars(), or a character vector of column names, or a numeric vector of column positions.

Details

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

Examples

```
mutate_ext(mtcars, funs(log), mpg, cyl, .ext = "_ln")
mutate_ext(mtcars, funs(log), .ext = "_ln")
mutate_ext(mtcars, funs(log))
mutate_ext(mtcars, funs(log), .ext = "_ln", .vars = vars(mpg, cyl))
```

normalize	<i>Normalize a variable x by a variable y</i>
-----------	-----------------------------------------------

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	<i>Number of missing values</i>
-----------	---------------------------------

Description

Number of missing values

Usage

```
n_missing(x)
```

Arguments

- x Input variable

Value

number of missing values

Examples

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

p025	2.5th percentile
------	------------------

Description

2.5th percentile

Usage

```
p025(x, na.rm = TRUE)
```

Arguments

x	Input variable
na.rm	If TRUE missing values are removed before calculation

Value

2.5th percentile

Examples

```
p025(rnorm(100))
```

p05	5th percentile
-----	----------------

Description

5th percentile

Usage

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

Arguments

x	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

x	Input variable
na.rm	If TRUE missing values are removed before calculation

Value

10th percentile

Examples

```
p10(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

Examples

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

p75	75th percentile
-----	-----------------

Description

75th percentile

Usage

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

Arguments

x	Input variable
na.rm	If TRUE missing values are removed before calculation

Value

75th percentile

Examples

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

p90	90th percentile
-----	-----------------

Description

90th percentile

Usage

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

Arguments

x	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

x	Input variable
na.rm	If TRUE missing values are removed before calculation

Value

95th percentile

Examples

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

p975	97.5th percentile
------	-------------------

Description

97.5th percentile

Usage

```
p975(x, na.rm = TRUE)
```

Arguments

x	Input variable
na.rm	If TRUE missing values are removed before calculation

Value

97.5th percentile

Examples

```
p975(rnorm(100))
```

parse_path	<i>Parse path into useful components (used by read_files function)</i>
------------	------------------------------------------------------------------------

Description

Parse path into useful components (used by read_files function)

Usage

```
parse_path(path, chr = "\", pdir = getOption(\"radiant.project_dir\",
  default = rstudioapi::getActiveProject()))
```

Arguments

path	Path to be parsed
chr	Character to wrap around path for display
pdir	Project directory if available

pivotr	<i>Create a pivot table using dplyr</i>
--------	-----------------------------------------

Description

Create a pivot table using dplyr

Usage

```
pivotr(dataset, cvars = "", nvar = "None", fun = "mean_rm",
  normalize = "None", tabfilt = "", tabsort = "", nr = NULL,
  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")
nr	Number of rows to display
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 <https://radiant-rstats.github.io/docs/data/pivotr.html> for an example in Radiant

Examples

```
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
```

plot.character	<i>Don't try to plot strings</i>
----------------	----------------------------------

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	<i>Plot method for the pivotr function</i>
-------------	--------------------------------------------

Description

Plot method for the pivotr function

Usage

```
## S3 method for class 'pivotr'
plot(x, type = "dodge", perc = FALSE, flip = FALSE,
     fillcol = "blue", opacity = 0.5, ...)
```

Arguments

x	Return value from <code>pivotr</code>
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)
fillcol	Fill color for bar-plot when only one categorical variable has been selected (default is "blue")
opacity	Opacity for plot elements (0 to 1)
...	further arguments passed to or from other methods

Details

See <https://radiant-rstats.github.io/docs/data/pivotr> for an example in Radiant

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 grid.arrange. Code is based on <https://github.com/baptiste/gridextra/blob/master/inst/testing/shiny.R>

Value

A plot

prop	<i>Calculate proportion</i>
------	-----------------------------

Description

Calculate proportion

Usage

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

Arguments

x	Input variable
na.rm	If TRUE missing values are removed before calculation

Value

Proportion of first level for a factor and of the maximum value for numeric

Examples

```
prop(c(rep(1L, 10), rep(0L, 10)))
prop(c(rep(4, 10), rep(2, 10)))
prop(rep(0, 10))
prop(factor(c(rep("a", 20), rep("b", 10))))
```

publishers	<i>Comic publishers</i>
------------	-------------------------

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

<code>radiant.data</code>	<i><code>radiant.data</code></i>
---------------------------	----------------------------------

Description

`radiant.data`
 Launch `radiant.data` in default browser

Usage

```
radiant.data()
```

Details

See <https://radiant-rstats.github.io/docs> for documentation and tutorials

Examples

```
## Not run:
radiant.data()
radiant.data("viewer")

## End(Not run)
```

<code>radiant.data-deprecated</code>	<i>Deprecated function(s) in the <code>radiant.data</code> package</i>
--------------------------------------	------------------------------------------------------------------------

Description

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

Usage

```
mutate_each(...)
```

Arguments

... Parameters to be passed to the updated functions

Details

`mutate_each` is now a synonym for `mutate_ext`, `mutate_at`, or `mutate_all`
`dfprint` is now a synonym for `formatdf`
`nrprint` is now a synonym for `formatnr`
`varp_rm` is now a synonym for `varpop`
`sdp_rm` is now a synonym for `sdpop`

<code>radiant.data_viewer</code>	<i>Launch radiant.data in the Rstudio viewer</i>
----------------------------------	--------------------------------------------------

Description

Launch radiant.data in the Rstudio viewer

Usage

```
radiant.data_viewer()
```

Details

See <https://radiant-rstats.github.io/docs> for documentation and tutorials

Examples

```
## Not run:  
radiant.data_viewer()  
  
## End(Not run)
```

<code>radiant.data_window</code>	<i>Launch radiant.data in the Rstudio window</i>
----------------------------------	--------------------------------------------------

Description

Launch radiant.data in the Rstudio window

Usage

```
radiant.data_window()
```

Details

See <https://radiant-rstats.github.io/docs> for documentation and tutorials

Examples

```
## Not run:  
radiant.data_window()  
  
## End(Not run)
```

read_files	<i>Return code to read file at specified path. Will open a file browser of no path is provided</i>
------------	----------------------------------------------------------------------------------------------------

Description

Return code to read file at specified path. Will open a file browser of no path is provided

Usage

```
read_files(path, type = "rmd", to = "", clipboard = TRUE,
  radiant = FALSE)
```

Arguments

path	Path to file. If empty, a file browser will be opened
type	Code for "rmd" or "r"
to	Object name to use for object. If empty, will use file name to derive an appropriate object name
clipboard	Return code to clipboard (not available on Linux)
radiant	Should returned code be formatted for use with other code generated by Radiant

refactor	<i>Remove/reorder levels</i>
----------	------------------------------

Description

Remove/reorder levels

Usage

```
refactor(x, levs = levels(x), repl = NA)
```

Arguments

x	Character or Factor
levs	Set of levels to use
repl	String (or NA) used to replace missing levels

Details

Keep only a specific set of levels in a factor. By removing levels the base for comparison in, e.g., regression analysis, becomes the first level. To relabel the base use, for example, repl = 'other'

Examples

```
refactor(diamonds$cut, c("Premium", "Ideal")) %>% head()
refactor(diamonds$cut, c("Premium", "Ideal", "Other")) %>% head()
```

register	<i>Register a data.frame in the datasetlist in Radiant</i>
----------	------------------------------------------------------------

Description

Register a data.frame in the datasetlist in Radiant

Usage

```
register(new, org = "", descr = "")
```

Arguments

new	Name of the new dataset
org	Name of the original data if a (working) copy is being made
descr	Dataset description

render	<i>Method to render objects (i.e., htmlwidgets and rmarkdown files)</i>
--------	-------------------------------------------------------------------------

Description

Method to render objects (i.e., htmlwidgets and rmarkdown files)

Usage

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

Arguments

object	Object of relevant class to render
...	Additional arguments

render.character	<i>Method to render rmarkdown documents</i>
------------------	---------------------------------------------

Description

Method to render rmarkdown documents

Usage

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

Arguments

object	File path to an R-markdown file
...	Additional arguments passed on to rmarkdown::render

render.datatables	<i>Method to render DT tabels</i>
-------------------	-----------------------------------

Description

Method to render DT tabels

Usage

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

Arguments

object	DT table
...	Additional arguments

render.plotly	<i>Method to render plotly plots</i>
---------------	--------------------------------------

Description

Method to render plotly plots

Usage

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

Arguments

object	ggplotly object
...	Additional arguments

render.shiny.render.function	<i>Method to avoid re-rendering a shiny.render.function</i>
------------------------------	-------------------------------------------------------------

Description

Method to avoid re-rendering a shiny.render.function

Usage

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

Arguments

object	Shiny render function
...	Additional arguments

rounddf	<i>Round double in a data.frame to a specified number of decimal places</i>
---------	-----------------------------------------------------------------------------

Description

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

Usage

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

Arguments

tbl	Data frame
dec	Number of decimals to show

Value

Data frame with rounded doubles

Examples

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

rownames_to_column	<i>Exporting rownames_to_column from tibble</i>
--------------------	-------------------------------------------------

Description

Exporting rownames_to_column from tibble

saver	<i>Save data.frame as an rda or rds file from Radiant</i>
-------	-----------------------------------------------------------

Description

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

Usage

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

Arguments

objname	Name of a data.frame or a data.frame
file	File name and path as a string. Extension must be either rda or rds

sdpop	<i>Standard deviation for the population</i>
-------	----------------------------------------------

Description

Standard deviation for the population

Usage

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

Arguments

x	Input variable
na.rm	If TRUE missing values are removed before calculation

Value

Standard deviation for the population

Examples

```
sdpop(rnorm(100))
```

sdprop	<i>Standard deviation for proportion</i>
--------	------------------------------------------

Description

Standard deviation for proportion

Usage

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

Arguments

x	Input variable
na.rm	If TRUE missing values are removed before calculation

Value

Standard deviation for proportion

Examples

```
sdprop(c(rep(1L, 10), rep(0L, 10)))
```

sd_rm	<i>Standard deviation with na.rm = TRUE</i>
-------	---------------------------------------------

Description

Standard deviation with na.rm = TRUE

Usage

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

Arguments

x	Input variable
na.rm	If TRUE missing values are removed before calculation

Value

Standard deviation

Examples

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

se	<i>Standard error</i>
----	-----------------------

Description

Standard error

Usage

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

Arguments

x	Input variable
na.rm	If TRUE missing values are removed before calculation

Value

Standard error

Examples

```
se(rnorm(100))
```

Search	<i>Search for a string in all columns of a data.frame</i>
--------	-----------------------------------------------------------

Description

Search for a string in all columns of a data.frame

Usage

```
Search(pattern, df, ignore.case = TRUE, fixed = FALSE)
```

Arguments

pattern	String to match
df	Data.frame to search
ignore.case	Should search be case sensitive or not (default is FALSE)
fixed	Allow regular expersions or not (default is FALSE)

Details

See <https://radiant-rstats.github.io/docs/data/view.html> for an example in Radiant

See Also

See [grepl](#) for a more detailed description of the function arguments

seprop	<i>Standard error for proportion</i>
--------	--------------------------------------

Description

Standard error for proportion

Usage

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

Arguments

x	Input variable
na.rm	If TRUE missing values are removed before calculation

Value

Standard error for proportion

Examples

```
seprop(c(rep(1L, 10), rep(0L, 10)))
```

set_attr	<i>Alias used to add an attribute</i>
----------	---------------------------------------

Description

Alias used to add an attribute

Usage

```
set_attr(x, which, value)
```

Arguments

x	Object
which	Attribute name
value	Value to set

Examples

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

show_duplicated	<i>Show all rows with duplicated values (not just the first or last)</i>
-----------------	--------------------------------------------------------------------------

Description

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

Usage

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

Arguments

.tbl	Data frame to add transformed variables to
...	Variables 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

Examples

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

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

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	<i>Exporting the skew function from the psych package</i>
------	-----------------------------------------------------------

Description

Exporting the skew function from the psych package

square	<i>Calculate square of a variable</i>
--------	---------------------------------------

Description

Calculate square of a variable

Usage

```
square(x)
```

Arguments

x	Input variable
---	----------------

Value

x^2

sshh	<i>Hide warnings and messages and return invisible</i>
------	--------------------------------------------------------

Description

Hide warnings and messages and return invisible

Usage

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

Arguments

...	Inputs to keep quiete
-----	-----------------------

Details

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

Examples

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

sshhr	<i>Hide warnings and messages and return result</i>
-------	-----------------------------------------------------

Description

Hide warnings and messages and return result

Usage

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

Arguments

... Inputs to keep quiet

Details

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

Examples

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

standardize	<i>Standardize</i>
-------------	--------------------

Description

Standardize

Usage

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

Arguments

x	Input variable
na.rm	If TRUE missing values are removed before calculation

Value

If x is a numeric variable return $\text{center}(x) / \text{mean}(x)$

store	<i>Method to store variables in a dataset in Radiant</i>
-------	----------------------------------------------------------

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

store.character	<i>Method for error messages that a user tries to store</i>
-----------------	-------------------------------------------------------------

Description

Method for error messages that a user tries to store

Usage

```
## S3 method for class 'character'  
store(object, ...)
```

Arguments

object	Object of type character
...	Additional arguments

store.data.frame	<i>Store method for the Data > View tab</i>
------------------	------------------------------------------------

Description

Store method for the Data > View tab

Usage

```
## S3 method for class 'data.frame'  
store(object, new = "", org = "",  
      envir = parent.frame(), ...)
```

Arguments

object	Filtered data frame from the Data > View tab
new	Name of the new dataset
org	Name of the original data
envir	Environment to assign 'new' dataset (optional). Used if 'new' is specified but an r_data list is not available
...	further arguments passed to or from other methods

Details

Store data frame in Radiant r_data list if available

store.explore	<i>Store method for the explore function</i>
---------------	----------------------------------------------

Description

Store method for the explore function

Usage

```
## S3 method for class 'explore'  
store(object, name, ...)
```

Arguments

object	Return value from explore
name	Name to assign to the dataset
...	further arguments passed to or from other methods

Details

Add the summarized data to the r_data list in Radiant or return it. See <https://radiant-rstats.github.io/docs/data/explore.html> for an example in Radiant

See Also

[explore](#) to generate summaries

store.pivotr	<i>Store method for the pivort function</i>
--------------	---------------------------------------------

Description

Store method for the pivort function

Usage

```
## S3 method for class 'pivotr'  
store(object, name, ...)
```

Arguments

object	Return value from pivotr
name	Name to assign to the dataset
...	further arguments passed to or from other methods

Details

Add the summarized data to the r_data list in Radiant or return it. See <https://radiant-rstats.github.io/docs/data/pivotr.html> for an example in Radiant

See Also

[pivotr](#) to generate summaries

subplot	<i>Exporting the subplot function from the plotly package</i>
---------	---------------------------------------------------------------

Description

Exporting the subplot function from the plotly package

summary.explore	<i>Summary method for the explore function</i>
-----------------	------------------------------------------------

Description

Summary method for the explore function

Usage

```
## S3 method for class 'explore'  
summary(object, dec = 3, ...)
```

Arguments

object	Return value from explore
dec	Number of decimals to show
...	further arguments passed to or from other methods

Details

See <https://radiant-rstats.github.io/docs/data/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.pivotr

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 <https://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(chi2 = TRUE)
pivotr("diamonds", cvars = "cut", tabsort = "-n") %>% summary
pivotr("diamonds", cvars = "cut", tabsort = "desc(n)") %>% summary
pivotr("diamonds", cvars = "cut", tabfilt = "n > 700") %>% summary
pivotr("diamonds", cvars = "cut:clarity", nvar = "price") %>% summary

```

sum_rm	<i>Sum with na.rm = TRUE</i>
--------	------------------------------

Description

Sum with na.rm = TRUE

Usage

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

Arguments

- x Input variable
- na.rm If TRUE missing values are removed before calculation

Value

Sum of input values

Examples

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

superheroes	<i>Super heroes</i>
-------------	---------------------

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	<i>Create data.frame from a table</i>
------------	---------------------------------------

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

Examples

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

tibble	<i>Exporting tibble</i>
--------	-------------------------

Description

Exporting tibble

tidy	<i>Exporting tidy from broom</i>
------	----------------------------------

Description

Exporting tidy from broom

titanic	<i>Survival data for the Titanic</i>
---------	--------------------------------------

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")`

varpop	<i>Variance for the population</i>
--------	------------------------------------

Description

Variance for the population

Usage

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

Arguments

x	Input variable
na.rm	If TRUE missing values are removed before calculation

Value

Variance for the population

Examples

```
varpop(rnorm(100))
```

varprop	<i>Variance for proportion</i>
---------	--------------------------------

Description

Variance for proportion

Usage

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

Arguments

x	Input variable
na.rm	If TRUE missing values are removed before calculation

Value

Variance for proportion

Examples

```
varprop(c(rep(1L, 10), rep(0L, 10)))
```

var_rm	<i>Variance with na.rm = TRUE</i>
--------	-----------------------------------

Description

Variance with na.rm = TRUE

Usage

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

Arguments

x	Input variable
na.rm	If TRUE missing values are removed before calculation

Value

Variance

Examples

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

viewdata	<i>View data in a shiny-app</i>
----------	---------------------------------

Description

View data in a shiny-app

Usage

```
viewdata(dataset, vars = "", filt = "", rows = NULL, na.rm = FALSE,
  dec = 3)
```

Arguments

dataset	Data.frame or name of the dataframe to view
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)
dec	Number of decimals to show

Details

View, search, sort, etc. your data

Examples

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

visualize	<i>Visualize data using ggplot2</i> http://ggplot2.tidyverse.org
-----------	-------------------------------------------------------------------------------------------------------------

Description

Visualize data using ggplot2 <http://ggplot2.tidyverse.org>

Usage

```
visualize(dataset, xvar, yvar = "", comby = FALSE, combx = FALSE,
  type = "dist", nrobs = -1, facet_row = ".", facet_col = ".",
  color = "none", fill = "none", size = "none", fillcol = "blue",
  linecol = "black", pointcol = "black", bins = 10, smooth = 1,
  fun = "mean", check = "", axes = "", alpha = 0.5, ylim = "none",
  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 <code>r_data</code> 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 Distribution ('dist'), Density ('density'), Scatter ('scatter'), Surface ('surface'), Line ('line'), Bar ('bar'), or Box-plot ('box')
nrobs	Number of data points to show in scatter plots (-1 for all)
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	Display bar, distribution, and density plots by group, each with a different color. Also applied to surface plots to generate a 'heat map'
size	Numeric variable used to scale the size of scatter-plot points
fillcol	Color used for bars, boxes, etc. when no color or fill variable is specified
linecol	Color for lines when no color variable is specified
pointcol	Color for points when no color variable is specified
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
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)
ylim	Set limit for y-axis
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 option 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 <https://radiant-rstats.github.io/docs/data/visualize.html> for an example in Radiant

Value

Generated plots

Examples

```
visualize("diamonds", "price:cut", type = "dist", fillcol = "red")
visualize("diamonds", "carat:cut", yvar = "price", type = "scatter",
  pointcol = "blue", fun = c("mean", "median"), linecol = c("red", "green"))
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",
  size = "table", custom = TRUE) + scale_size(range=c(1,10), guide = "none")
visualize(dataset = "diamonds", yvar = "price", xvar = "carat", type = "scatter", custom = TRUE) +
  labs(title = "A scatterplot", x = "price in $")
visualize(dataset = "diamonds", xvar = "price:carat", custom = TRUE) %>%
  gridExtra::grid.arrange(grobs = ., top = "Histograms", ncol = 2)
visualize(dataset = "diamonds", xvar = "cut", yvar = "price", type = "bar",
  facet_row = "cut", fill = "cut")
```

wday

Add ordered argument to lubridate::wday

Description

Add ordered argument to lubridate::wday

Usage

```
wday(x, label = FALSE, abbr = TRUE, ordered = FALSE)
```

Arguments

x	Input date vector
label	Weekday as label (TRUE, FALSE)
abbr	Abbreviate label (TRUE, FALSE)
ordered	Order factor (TRUE, FALSE)

See Also

See the [wday](#) function in the lubridate package for additional details

weighted.sd	<i>Weighted standard deviation</i>
-------------	------------------------------------

Description

Weighted standard deviation

Usage

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

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	<i>Returns the index of the (parallel) maxima of the input values</i>
------------	-----------------------------------------------------------------------

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

Value

Vector of rankings

Examples

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

write_feather

Workaround to add description using feather::write_feather

Description

Workaround to add description using feather::write_feather

Usage

```
write_feather(x, path, description = attr(x, "description"))
```

Arguments

x A data frame to write to disk
path Path to feather file
description Data description

xtile	<i>Create quantiles</i>
-------	-------------------------

Description

Create quantiles

Usage

```
xtile(x, n = 5, rev = FALSE)
```

Arguments

x	Numeric variable
n	number of bins to create
rev	Reverse the order of the xtiles

Details

Approach used produces results most similar to Stata

Examples

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

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