

Package ‘radiant.data’

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

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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 (>= 3.4.0),
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 (>= 0.3.0.1),
psych (>= 1.8.3.3),
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

R topics documented:

| | |
|------------------------|----|
| add_class | 5 |
| as_character | 5 |
| as_distance | 6 |
| as_dmy | 6 |
| as_dmy_hm | 7 |
| as_dmy_hms | 7 |
| as_duration | 8 |
| as_factor | 8 |
| as_hm | 9 |
| as_hms | 9 |
| as_integer | 10 |
| as_mdy | 10 |
| as_mdy_hm | 11 |
| as_mdy_hms | 12 |
| as_numeric | 12 |
| as_tibble | 13 |
| as_ymd | 13 |
| as_ymd_hm | 13 |
| as_ymd_hms | 14 |
| avengers | 14 |
| center | 15 |
| choose_dir | 15 |
| choose_files | 16 |
| ci_label | 16 |
| ci_perc | 17 |
| combinedata | 17 |
| copy_all | 18 |
| copy_attr | 19 |
| copy_from | 19 |
| cv | 20 |
| describe | 20 |
| diamonds | 21 |
| does_vary | 21 |
| dtab | 22 |

| | |
|---------------------------|----|
| dtab.character | 22 |
| dtab.data.frame | 23 |
| dtab.explore | 24 |
| dtab.pivotr | 25 |
| empty_level | 26 |
| explore | 26 |
| factorizer | 27 |
| filterdata | 28 |
| find_dropbox | 28 |
| find_gdrive | 29 |
| find_project | 29 |
| fixMS | 29 |
| flip | 30 |
| formatdf | 30 |
| formatnr | 31 |
| getclass | 32 |
| getdata | 32 |
| getsummary | 33 |
| ggplotly | 33 |
| glance | 33 |
| indexr | 34 |
| install_webshot | 34 |
| inverse | 34 |
| is_empty | 35 |
| is_not | 35 |
| is_string | 36 |
| items | 37 |
| knit_print | 37 |
| kurtosi | 37 |
| launch | 38 |
| level_list | 38 |
| ln | 39 |
| loadcsv | 39 |
| loadcsv_url | 40 |
| loadr | 40 |
| loadrda_url | 41 |
| make_funs | 41 |
| make_train | 42 |
| max_rm | 42 |
| mean_rm | 43 |
| median_rm | 43 |
| min_rm | 44 |
| mode_rm | 44 |
| month | 45 |
| mutate_ext | 45 |
| normalize | 46 |
| n_missing | 46 |
| p025 | 47 |
| p05 | 47 |
| p10 | 48 |
| p25 | 48 |
| p75 | 49 |

| | |
|------------------------------|----|
| p90 | 49 |
| p95 | 50 |
| p975 | 50 |
| parse_path | 51 |
| pivotr | 51 |
| plot.character | 52 |
| plot.pivotr | 52 |
| print.gtable | 53 |
| prop | 54 |
| publishers | 54 |
| radiant.data | 55 |
| radiant.data_viewer | 55 |
| radiant.data_window | 56 |
| read_files | 56 |
| refactor | 57 |
| register | 57 |
| render | 58 |
| render.character | 58 |
| render.datatables | 58 |
| render.plotly | 59 |
| render.shiny.render.function | 59 |
| rounddf | 60 |
| rownames_to_column | 60 |
| saver | 60 |
| sdpop | 61 |
| sdprop | 61 |
| sd_rm | 62 |
| se | 62 |
| Search | 63 |
| seprop | 63 |
| set_attr | 64 |
| show_duplicated | 64 |
| sig_stars | 65 |
| skew | 65 |
| square | 66 |
| sshh | 66 |
| sshhr | 67 |
| standardize | 67 |
| store | 68 |
| store.character | 68 |
| store.explore | 69 |
| store.pivotr | 69 |
| subplot | 70 |
| summary.explore | 70 |
| summary.pivotr | 71 |
| sum_rm | 72 |
| superheroes | 72 |
| table2data | 73 |
| tibble | 73 |
| tidy | 73 |
| titanic | 74 |
| varpop | 74 |

| | |
|-------------|--|
| 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_mdy_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 $x - \text{mean}(x)$

| | |
|------------|--|
| 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",
  data_filter = "", ...)
```

Arguments

| | |
|-------------|---|
| x | Dataset |
| y | Dataset to combine with x |
| by | Variables used to combine 'x' and 'y' |
| add | Variables to add from 'y' |
| 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 |
| 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(dataset)
```

Arguments

| | |
|---------|---------|
| dataset | Dataset |
|---------|---------|

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

| | |
|-------|---|
| x | Input variable |
| na.rm | 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 | <i>Make a pivot tabel in DT</i> |
|-------------|---------------------------------|

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 to explore |
| 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(dataset, safx = 30)
```

Arguments

| | |
|---------|------------------------|
| dataset | 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(dataset, filt = "", drop = TRUE)
```

Arguments

| | |
|---------|--|
| dataset | 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 | <i>Flip the DT table to put Function, Variable, or Group by on top</i> |
|------|--|

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 <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 | <i>Format a data.frame with a specified number of decimal places</i> |
|----------|--|

Description

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

Usage

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

Arguments

| | |
|------|--|
| tbl | Data.frame |
| dec | Number of decimals to show |
| perc | Display numbers as percentages (TRUE or FALSE) |
| mark | Thousand separator |
| ... | Additional arguments for formatnr |

Value

Data.frame for printing

Examples

```
data.frame(x = c("a", "b"), y = c(1L, 2L), z = c(-0.0005, 3)) %>%
  formatdf(dec = 4)
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 |
| ... | Additional arguments |

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 | Dataset or name of the data.frame |
| vars | Variables to extract from the data.frame |
| 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(dataset, dc = getclass(dataset))
```

Arguments

| | |
|---------|-------------------------|
| dataset | Data.frame |
| dc | Class for each variable |

Details

Used in Radiant's Data > Transform tab

| | |
|----------|---|
| ggplotly | Exporting the ggplotly function from the plotly package |
|----------|---|

Description

Exporting the ggplotly function from the plotly package

| | |
|--------|-----------------------------|
| glance | Exporting glance from broom |
|--------|-----------------------------|

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 |
| 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_empty(c("", "something"))
is_empty(c(NA, 1:100))
is_empty(mtcars)
```

| | |
|--------|--|
| 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_not(list())
is_not(data.frame())
```

| | |
|-----------|---------------------------|
| is_string | <i>Is input a string?</i> |
|-----------|---------------------------|

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)
is_string(NA)
```

| | |
|--------|---|
| iterms | <i>Create a vector of interaction terms</i> |
|--------|---|

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) %>% itersms(2)
paste0("var", 1:3) %>% itersms(3)
paste0("var", 1:3) %>% itersms(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(dataset, ...)
```

Arguments

| | |
|---------|-------------------------------------|
| dataset | 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 |
| safx | 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, env = parent.frame())
```

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 |
| env | Environment where object(s) should be assigned |

Value

Data frame in `r_data` or in the calling environment

| | |
|-------------|------------------------------------|
| 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 | <i>2.5th percentile</i> |
|------|-------------------------|

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 | <i>5th percentile</i> |
|-----|-----------------------|

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 | <i>10th percentile</i> |
|-----|------------------------|

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 | <i>25th percentile</i> |
|-----|------------------------|

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 | Dataset to tabulate |
| 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 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) |
| 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")

`radiant.data`*radiant.data*

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)
```

`radiant.data_viewer`*Launch radiant.data in the Rstudio viewer*

DescriptionLaunch `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)
```

| | |
|---------------------|--|
| radiant.data_window | <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 or list Radiant</i> |
|----------|--|

Description

Register a data.frame or list Radiant

Usage

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

Arguments

| | |
|-------|---|
| new | String containing the name of the data.frame or tibble to register |
| org | Name of the original data.frame or tibble if a (working) copy is being made |
| descr | Data description in markdown format |
| env | Environment to assign data to |

| | |
|--------|---|
| 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 = 2)
```

| | |
|--------------------|---|
| 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

| | |
|-----|--|
| ssh | <i>Hide warnings and messages and return invisible</i> |
|-----|--|

Description

Hide warnings and messages and return invisible

Usage

```
ssh(...)
```

Arguments

| | |
|-----|----------------------|
| ... | Inputs to keep quiet |
|-----|----------------------|

Details

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

Examples

```
ssh(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(dataset, object = "deprecated", ...)
```

Arguments

| | |
|---------|--|
| dataset | Dataset |
| object | Object of relevant class that has information to be stored |
| ... | 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(dataset = NULL, object, ...)
```

Arguments

| | |
|---------|--------------------------|
| dataset | Dataset |
| object | Object of type character |
| ... | Additional arguments |

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

Description

Deprecated: Store method for the explore function

Usage

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

Arguments

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

Details

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

See Also

[explore](#) to generate summaries

| | |
|--------------|---|
| store.pivotr | <i>Deprecated: Store method for the pivotr function</i> |
|--------------|---|

Description

Deprecated: Store method for the pivotr function

Usage

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

Arguments

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

Details

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

See Also

[pivotr](#) to generate summaries

subplot

Exporting the subplot function from the plotly package

Description

Exporting the subplot function from the plotly package

summary.explore

Summary method for the explore function

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 | <i>Summary method for pivotr</i> |
|----------------|----------------------------------|

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 | Create data.frame from a table |
|------------|--------------------------------|

Description

Create data.frame from a table

Usage

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

Arguments

| | |
|---------|--|
| dataset | Data.frame |
| freq | Column name with frequency information |

Examples

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

| | |
|--------|------------------|
| tibble | Exporting tibble |
|--------|------------------|

Description

Exporting tibble

| | |
|------|---------------------------|
| tidy | Exporting tidy from broom |
|------|---------------------------|

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)
  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 = ifelse(is_empty(yvar), "dist", "scatter"), 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, xlim = NULL, ylim = NULL, data_filter = "",
          shiny = FALSE, custom = FALSE)
```

Arguments

| | |
|-------------|---|
| dataset | Data to plot (data.frame or tibble) |
| 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) |
| xlim | Set limit for y-axis (e.g., c(0, 1)) |
| ylim | Set limit for y-axis (e.g., c(0, 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 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(diamonds, yvar = "price", xvar = c("cut", "clarity"),
  type = "bar", fun = "median")
visualize(diamonds, yvar = "price", xvar = c("cut", "clarity"),
  type = "line", fun = "max")
visualize(diamonds, yvar = "price", xvar = "carat", type = "scatter",
  size = "table", custom = TRUE) + scale_size(range=c(1,10), guide = "none")
visualize(diamonds, yvar = "price", xvar = "carat", type = "scatter", custom = TRUE) +
  labs(title = "A scatterplot", x = "price in $")
visualize(diamonds, xvar = "price:carat", custom = TRUE) %>%
  gridExtra::grid.arrange(grobs = ., top = "Histograms", ncol = 2)
visualize(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 [lubridate::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.pmax(mtcars)
```

| | |
|-------------------------|---|
| <code>which.pmin</code> | <i>Returns the index of the (parallel) minima of the input values</i> |
|-------------------------|---|

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)
which.pmin(mtcars)
```

| | |
|----------------------------|---|
| <code>write_feather</code> | <i>Workaround to add description using feather::write_feather</i> |
|----------------------------|---|

Description

Workaround to add description using feather::write_feather

Usage

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

Arguments

| | |
|--------------------------|-------------------------------|
| <code>x</code> | A data frame to write to disk |
| <code>path</code> | Path to feather file |
| <code>description</code> | 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)
```

Index

*Topic **datasets**

avengers, [14](#)
diamonds, [21](#)
publishers, [54](#)
superheroes, [72](#)
titanic, [74](#)

add_class, [5](#)
as_character, [5](#)
as_distance, [6](#)
as_dmy, [6](#)
as_dmy_hm, [7](#)
as_dmy_hms, [7](#)
as_duration, [8](#)
as_factor, [8](#)
as_hm, [9](#)
as_hms, [9](#)
as_integer, [10](#)
as_mdy, [10](#)
as_mdy_hm, [11](#)
as_mdy_hms, [12](#)
as_numeric, [12](#)
as_tibble, [13](#)
as_ymd, [13](#)
as_ymd_hm, [13](#)
as_ymd_hms, [14](#)
avengers, [14](#)

center, [15](#)
choose_dir, [15](#)
choose_files, [16](#)
ci_label, [16](#)
ci_perc, [17](#)
combinedata, [17](#)
copy_all, [18](#)
copy_attr, [19](#)
copy_from, [19](#)
cv, [20](#)

describe, [20](#)
diamonds, [21](#)
does_vary, [21](#)
dtab, [22](#)
dtab.character, [22](#)

dtab.data.frame, [22](#), [23](#)
dtab.explore, [22](#), [24](#), [30](#)
dtab.pivotr, [22](#), [25](#)

empty_level, [26](#)
explore, [22](#), [24](#), [26](#), [30](#), [69](#), [70](#)

factorizer, [27](#)
filterdata, [28](#)
find_dropbox, [28](#)
find_gdrive, [29](#)
find_project, [29](#)
fixMS, [29](#)
flip, [30](#)
formatdf, [30](#)
formatnr, [31](#)

getclass, [32](#)
getdata, [32](#)
getsummary, [33](#)
ggplotly, [33](#)
glance, [33](#)
grepl, [63](#)

indexr, [34](#)
install_webshot, [34](#)
inverse, [34](#)
is_empty, [35](#)
is_not, [35](#)
is_string, [36](#)
iterms, [37](#)

knit_print, [37](#)
kurtosi, [37](#)

launch, [38](#)
level_list, [38](#)
ln, [39](#)
loadcsv, [39](#)
loadcsv_url, [40](#)
loadr, [40](#)
loadrda_url, [41](#)
lubridate::wday(), [78](#)

make_funs, [41](#)

make_train, 42
max_rm, 42
mean_rm, 43
median_rm, 43
min_rm, 44
mode_rm, 44
month, 45, 45
mutate_ext, 45

n_missing, 46
normalize, 46

p025, 47
p05, 47
p10, 48
p25, 48
p75, 49
p90, 49
p95, 50
p975, 50
parse_path, 51
pivotr, 22, 24, 25, 51, 53, 69–71
plot.character, 52
plot.pivotr, 52
print.gtable, 53
prop, 54
publishers, 54

radiant.data, 55
radiant.data-package (radiant.data), 55
radiant.data_viewer, 55
radiant.data_window, 56
read_files, 56
refactor, 57
register, 57
render, 58
render.character, 58
render.datatables, 58
render.plotly, 59
render.shiny.render.function, 59
rounddf, 60
rownames_to_column, 60

saver, 60
sd_rm, 62
sdpop, 61
sdprop, 61
se, 62
Search, 63
seprop, 63
set_attr, 64
show_duplicated, 64
sig_stars, 65

skew, 65
square, 66
sshh, 66
sshr, 67
standardize, 67
store, 68
store.character, 68
store.explore, 69
store.pivotr, 69
subplot, 70
sum_rm, 72
summary.explore, 27, 70
summary.pivotr, 24, 25, 53, 71
superheroes, 72

table2data, 73
tibble, 73
tidy, 73
titanic, 74

var_rm, 75
varpop, 74
varprop, 75
viewdata, 76
visualize, 76

wday, 78
weighted.sd, 79
which.pmax, 79
which.pmin, 80
write_feather, 80

xtile, 81