

# Package ‘radiant.data’

January 8, 2018

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

**Version** 0.9.0

**Date** 2018-1-8

**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 (>= 1.7.1),  
tidyr (>= 0.7.2),  
dplyr (>= 0.7.4)

**Imports** tibble (>= 1.3.4),  
rlang (>= 0.1.6),  
broom (>= 0.4.3),  
car (>= 2.1.3),  
grid (>= 3.3.1),  
gridExtra (>= 2.0.0),  
knitr (>= 1.18),  
markdown (>= 0.8),  
rmarkdown (>= 1.8),  
pryr (>= 0.1.2),  
shiny (>= 1.0.5),  
jsonlite (>= 1.0),  
shinyAce (>= 0.2.2),  
psych (>= 1.6.6),  
DT (>= 0.2),  
readr (>= 1.1.1),  
readxl (>= 1.0.0),  
scales (>= 0.4.0),  
curl (>= 2.5),  
rstudioapi (>= 0.7),  
import (>= 1.1.0),  
plotly (>= 4.6),  
feather (>= 0.3.1),  
base64enc,  
methods

**Suggests** DBI (>= 0.7),  
 RSQLite (>= 2.0),  
 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>

**License** AGPL-3 | file LICENSE

**LazyData** true

**RoxygenNote** 6.0.1

## R topics documented:

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---

|             |  |
|-------------|--|
| as_distance | <i>Distance in kilometers or miles between two locations based on lat-long Function based on <a href="http://www.movable-type.co.uk/scripts/latlong.html">http://www.movable-type.co.uk/scripts/latlong.html</a>. 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 decimal places                            |

**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. <b>inner_join</b> 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. <b>left_join</b> 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. <b>right_join</b> is equivalent to a left join for datasets y and x. <b>full_join</b> combines two datasets, keeping rows and columns that appear in either. <b>semi_join</b> 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. <b>anti_join</b> returns all rows from x without matching values in y, keeping only columns from x. <b>bind_rows</b> and <b>bind_cols</b> are also included, as are <b>intersect</b> , <b>union</b> , and <b>setdiff</b> . See <a href="https://radiant-rstats.github.io/docs/data/combine.html">https://radiant-rstats.github.io/docs/data/combine.html</a> 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,
      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)                 |
| 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 <a href="https://datatables.net/reference/option/dom">https://datatables.net/reference/option/dom</a> |
| 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 <a href="#">explore</a>                |
| 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 <a href="#">pivotr</a>                          |
| 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 | <i>Convert character to factors as needed</i> |
|------------|---|

---

## Description

Convert character to factors as needed

## Usage

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

## Arguments

|                   |                        |
|-------------------|------------------------|
| <code>dat</code>  | Data frame             |
| <code>safx</code> | 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 = "")
```

**Arguments**

|      |  |
|------|--|
| dat  | Data frame to filter   |
| filt | Filter expression to apply to the specified dataset (e.g., "price > 10000" if dataset is "diamonds") |

**Value**

Filtered data frame

---

|              |                                     |
|--------------|-------------------------------------|
| 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)
```

**Arguments**

|      |                   |
|------|-------------------|
| text | Text to be parsed |
|------|-------------------|

---

`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 <a href="#">explore</a>  |
| <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 = 3, perc = FALSE, mark = "")
```

**Arguments**

|                   |  |
|-------------------|--|
| <code>tbl</code>  | Data.frame                                     |
| <code>dec</code>  | Number of decimal places                       |
| <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 decimal places       |
| perc | Display number as a percentage |
| mark | Thousand separator             |

**Value**

Character (vector) in the desired format

**Examples**

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



---

|          |                           |
|----------|---------------------------|
| getclass | <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 | Create data.frame summary |
|------------|---------------------------|

---

**Description**

Create data.frame summary

**Usage**

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

**Arguments**

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

**Details**

Used in Radiant's Data > Transform tab

---

|          |   |
|----------|---|
| 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 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") or in the Rstudio viewer ("viewer")  |

**Details**

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

**Examples**

```
## Not run:
launch()
launch("viewer")

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

**Arguments**

|        |   |
|--------|---|
| fn     | File name string  |
| .csv   | Use read.csv instead of read_csv to load file (default is FALSE)  |
| header | Header in file (TRUE, FALSE)  |
| sep    | Use , (default) or ; or \t  |
| dec    | Decimal symbol. Use . (default) or ,  |
| n_max  | Maximum number of rows to read  |
| saf    | Convert character variables to factors if (1) there are less than 100 distinct values<br>(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<br>(2) there are X (see safx) more values than levels |
| safox   | 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 | <i>95th percentile</i> |
|-----|------------------------|

---

**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 | <i>97.5th percentile</i> |
|------|--------------------------|

---

**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))
```

---

pivotr

---

*Create a pivot table using dplyr*


---

## Description

Create a pivot table using dplyr

## Usage

```
pivotr(dataset, cvars = "", nvar = "None", fun = "mean_rm",
        normalize = "None", tabfilt = "", tabsort = "", 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 <a href="#">pivotr</a>   |
| 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 | <i>Print/draw method for grobs produced by gridExtra</i> |
|--------------|--|

---

**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](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 | <i>radiant.data</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)
```

---

radiant.data-deprecated

*Deprecated function(s) in the radiant.data package*


---

**Description**

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

**Usage**

```
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](#)

---

radiant.data\_viewer

*Launch radiant.data in the Rstudio viewer*


---

**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)
```

---

|          |                              |
|----------|------------------------------|
| 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 decimal places |

**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 center(x) / 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 &gt; 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 <a href="#">explore</a>         |
| 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 <a href="#">pivotr</a>          |
| 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 <a href="#">explore</a>         |
| 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 <a href="#">pivotr</a>                         |
| 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](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)
```

### 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)  |

### Details

View, search, sort, etc. your data

### Examples

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

---

|           |   |
|-----------|---|
| visualize | <i>Visualize data using ggplot2</i> <a href="http://ggplot2.tidyverse.org">http://ggplot2.tidyverse.org</a> |
|-----------|---|

---

### Description

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

### Usage

```
visualize(dataset, xvar, yvar = "", comby = FALSE, combx = FALSE,
  type = "dist", 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')  |
| 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 <a href="http://docs.ggplot2.org/">http://docs.ggplot2.org/</a> 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)
```

---

|                         |   |
|-------------------------|---|
| <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)
```

---

|                            |   |
|----------------------------|---|
| <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, 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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