# Package 'radiant.data'

June 24, 2016

```
Title Business Analytics using R and Shiny
Version 0.5
Date 2016-6-24
Description A platform-independent browser-
      based interface for business analytics in R, based on the Shiny package.
Depends R (>= 3.2.0),
      magrittr (>= 1.5),
      ggplot2 (>= 2.0.0),
      lubridate (>= 1.5.0),
      tidyr (>= 0.4.1),
      dplyr (>= 0.4.3),
Imports broom (>= 0.4.0),
      car (>= 2.1.1),
      gridExtra (\geq 2.0.0),
      knitr (>= 1.13),
      rmarkdown(>= 0.9.5),
      markdown (>= 0.7.7),
      pryr (>= 0.1.2),
      shiny (>= 0.13.2),
     jsonlite (>= 0.9.17),
      shinyAce (>= 0.2.1),
      psych (>= 1.5.8),
      DT (>= 0.1.55),
      readr (>= 0.2.2),
      scales (>= 0.3.0),
      curl (>= 0.9.4),
      rstudioapi (>= 0.5),
      import (>= 1.1.0),
      base64enc,
      methods
Suggests devtools (>= 1.8.0),
      testthat (>= 0.10.0),
      covr (>= 1.2.0)
URL https://github.com/radiant-rstats/radiant, http://vnijs.github.io/radiant/
BugReports https://github.com/radiant-rstats/radiant/issues
License AGPL-3 | file LICENSE
LazyData true
```

## RoxygenNote 5.0.1

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add\_class

Convenience function to add a class

### Description

Convenience function to add a class

### Usage

Index

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

## Arguments

x Object

cl Vector of class labels to add

### **Examples**

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

as\_character

Wrapper for as.character

## Description

Wrapper for as.character

## Usage

```
as_character(x)
```

### **Arguments**

Х

Input vector

as\_distance 5

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

## Description

Distance in kilometers or miles between two locations based on lat-long Function based on <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

### Usage

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

#### **Arguments**

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

#### Value

Distance bewteen two points

## **Examples**

```
as\_distance(32.8245525,-117.0951632,\ 40.7033127,-73.979681,\ unit="km")\\ as\_distance(32.8245525,-117.0951632,\ 40.7033127,-73.979681,\ unit="miles")
```

as\_dmy

Convert input in day-month-year format to date

### Description

Convert input in day-month-year format to date

### Usage

```
as_dmy(x)
```

#### **Arguments**

Х

Input variable

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#### Value

Date variable of class Date

#### **Examples**

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

as\_dmy\_hm

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

## Description

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

### Usage

```
as_dmy_hm(x)
```

#### **Arguments**

Χ

Input variable

#### Value

Date-time variable of class Date

## **Examples**

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

as\_dmy\_hms

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

## Description

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

## Usage

```
as_dmy_hms(x)
```

#### **Arguments**

Χ

Input variable

## Value

Date-time variable of class Date

as\_duration 7

## **Examples**

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

as\_duration

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

## Description

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

### Usage

```
as_duration(x)
```

## **Arguments**

Х

Time difference

as\_factor

Wrapper for as.factor

## Description

Wrapper for as.factor

## Usage

```
as_factor(x)
```

## **Arguments**

Х

Input vector

8 as\_hms

as\_hm

Convert input in hour-minute format to time

## Description

Convert input in hour-minute format to time

### Usage

```
as_hm(x)
```

## **Arguments**

Х

Input variable

### Value

Time variable of class Period

## **Examples**

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

as\_hms

Convert input in hour-minute-second format to time

## Description

Convert input in hour-minute-second format to time

### Usage

```
as_hms(x)
```

## Arguments

Х

Input variable

### Value

Time variable of class Period

as\_integer 9

#### **Examples**

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

as\_integer

Convert variable to integer avoiding potential issues with factors

## Description

Convert variable to integer avoiding potential issues with factors

### Usage

```
as_integer(x)
```

### Arguments

Х

Input variable

#### Value

Integer

### **Examples**

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

as\_mdy

Convert input in month-day-year format to date

## Description

Convert input in month-day-year format to date

### Usage

```
as_mdy(x)
```

#### **Arguments**

Х

Input variable

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### **Details**

Use as.character if x is a factor

#### Value

Date variable of class Date

### **Examples**

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

as\_mdy\_hm

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

## Description

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

## Usage

```
as_mdy_hm(x)
```

### **Arguments**

Х

Input variable

#### Value

Date-time variable of class Date

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

as\_mdy\_hms 11

as\_mdy\_hms

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

### Description

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

#### Usage

```
as_mdy_hms(x)
```

#### **Arguments**

Χ

Input variable

#### Value

Date-time variable of class Date

#### **Examples**

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

as\_numeric

Convert variable to numeric avoiding potential issues with factors

### Description

Convert variable to numeric avoiding potential issues with factors

### Usage

```
as_numeric(x)
```

## Arguments

Χ

Input variable

#### Value

Numeric

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

12 as\_ymd\_hm

as\_ymd

Convert input in year-month-day format to date

## Description

Convert input in year-month-day format to date

### Usage

```
as_ymd(x)
```

### Arguments

Х

Input variable

#### Value

Date variable of class Date

### **Examples**

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

as\_ymd\_hm

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

## Description

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

### Usage

```
as_ymd_hm(x)
```

## Arguments

x

Input variable

### Value

Date-time variable of class Date

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

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

### Description

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

### Usage

```
as_ymd_hms(x)
```

### Arguments

Х

Input variable

#### Value

Date-time variable of class Date

## **Examples**

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

## End(Not run)
```

avengers

Avengers

## Description

Avengers

## Usage

```
data(avengers)
```

#### **Format**

A data frame with 7 rows and 4 variables

#### **Details**

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

14 changedata

center

## Description

Center

## Usage

center(x)

## Arguments

Х

Input variable

Center

#### Value

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

changedata

Change data

## Description

Change data

### Usage

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

## Arguments

dataset Name of the dataframe to change

vars New variables to add to the data.frame

var\_names Names for the new variables to add to the data.frame

#### Value

None

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ci\_label

Labels for confidence intervals

#### **Description**

Labels for confidence intervals

#### Usage

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

### **Arguments**

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

cl Confidence level

#### Value

A character vector with labels for a confidence interval

### **Examples**

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

ci\_perc

Values at confidence levels

### Description

Values at confidence levels

#### Usage

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

## Arguments

dat Data

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

cl Confidence level

## Value

A vector with values at a confidence level

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#### **Examples**

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

combinedata

Combine datasets using dplyr's bind and join functions

#### **Description**

Combine datasets using dplyr's bind and join functions

## Usage

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

#### **Arguments**

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

element in an r\_data list from Radiant

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

global environment or an element in an r\_data list from Radiant

by Variables used to combine 'dataset' and 'cmb\_dataset'

add Variables to add from 'cmb\_dataset'

type The main bind and join types from the dplyr package are provided. inner\_join

returns all rows from x with matching values in y, and all columns from x and y. If there are multiple matches between x and y, all match combinations are returned. **left\_join** returns all rows from x, and all columns from x and y. If there are multiple matches between x and y, all match combinations are returned. **right\_join** is equivalent to a left join for datasets y and x. **full\_join** combines two datasets, keeping rows and columns that appear in either. **semi\_join** returns all rows from x with matching values in y, keeping just columns from x. A semi join differs from an inner join because an inner join will return one row of x for each matching row of y, whereas a semi join will never duplicate rows of x. **anti\_join** returns all rows from x without matching values in y, keeping only columns from x. **bind\_rows** and **bind\_cols** are also included, as are **intersect**, **union**, and **setdiff**. See <a href="http://radiant-rstats.github.io/docs/data/combine.html">html</a> for further details

name Name for the combined dataset

#### **Details**

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

#### Value

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

copy\_all 17

#### **Examples**

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

copy\_all

Source all package functions

#### **Description**

Source all package functions

#### Usage

```
copy_all(.from)
```

#### **Arguments**

.from

The package to pull the function from

#### **Details**

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

## **Examples**

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

copy\_from

Source for package functions

#### **Description**

Source for package functions

## Usage

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

### Arguments

. from The package to pull the function from

... Functions to pull

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#### **Details**

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

### **Examples**

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

C۷

Coefficient of variation

## Description

Coefficient of variation

#### Usage

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

#### **Arguments**

x Input variable

na.rm If TRUE missing values are removed before calculation

#### Value

Coefficient of variation

## Examples

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

dfround

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

#### **Description**

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

#### Usage

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

#### **Arguments**

tbl Data.frame

dec Number of decimal places

diamonds 19

#### Value

Data.frame for viewing

#### **Examples**

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

diamonds

Diamond prices

#### **Description**

Diamond prices

#### Usage

data(diamonds)

#### **Format**

A data frame with 3000 rows and 10 variables

### **Details**

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

does\_vary

Does a vector have non-zero variability?

## Description

Does a vector have non-zero variability?

#### Usage

```
does_vary(x)
```

#### Arguments

Χ

Input variable

#### Value

Logical. TRUE is there is variability

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

20 explore

### Description

Explore data

## Usage

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

#### **Arguments**

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

#### **Details**

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

#### Value

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

#### See Also

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

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

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factorizer

Convert character to factors as needed

## Description

Convert character to factors as needed

## Usage

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

## Arguments

dat Data.frame

safx Values to levels ratio

### Value

Data.frame with factors

filterdata

Filter data with user-specified expression

## Description

Filter data with user-specified expression

## Usage

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

## Arguments

dat Data.frame to filter

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

is "diamonds")

### Value

Filtered data.frame

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find\_dropbox

Find a users dropbox directory

#### Description

Find a users dropbox directory

### Usage

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

### **Arguments**

folder

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

#### Value

Path to users personal dropbox directory

flip

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

## Description

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

## Usage

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

#### **Arguments**

expl Return value from explore

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

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

#### **Details**

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

#### See Also

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

formatdf 23

#### **Examples**

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

formatdf

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

#### **Description**

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

#### Usage

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

#### **Arguments**

tbl Data.frame

dec Number of decimal places

perc Display numbers as percentages (TRUE or FALSE)

mark Thousand separator

#### Value

Data.frame for printing

#### **Examples**

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

formatnr

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

#### **Description**

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

#### Usage

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

24 getclass

#### **Arguments**

X	Number or vector
sym	Symbol to use

dec Number of decimal places

perc Display number as a percentage

mark Thousand separator

#### Value

Character (vector) in the desired format

### **Examples**

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

getclass

Get variable class

### Description

Get variable class

## Usage

```
getclass(dat)
```

#### **Arguments**

dat

Dataset to evaluate

### **Details**

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

#### Value

Vector with class information for each variable

```
getclass(mtcars)
```

getdata 25

getdata	Get data for analysis functions	

## Description

Get data for analysis functions

## Usage

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

## Arguments

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

#### Value

Data.frame with specified columns and rows

getsummary	Create data.frame summary	

## Description

Create data.frame summary

#### Usage

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

## Arguments

dat Data.frame

dc Class for each variable

#### **Details**

Used in Radiant's Data > Transform tab

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glance

Exporting the glance from broom

## Description

Exporting the glance from broom

indexr

Find index corrected for missing values and filters

## Description

Find index corrected for missing values and filters

### Usage

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

## Arguments

dataset Dataset name

vars Variables to select

filt Data filter

install\_webshot

Install webshot and phantomjs

## Description

Install webshot and phantomjs

## Usage

```
install_webshot()
```

inverse 27

inverse

Calculate inverse of a variable

## Description

Calculate inverse of a variable

## Usage

```
inverse(x)
```

### **Arguments**

Х

Input variable

#### Value

1/x

is\_empty

Is a character variable defined

## **Description**

Is a character variable defined

### Usage

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

## Arguments

x Character value to evaluate

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

### **Details**

Is a variable NULL or an empty string

### Value

TRUE if empty, else FALSE

is\_string

#### **Examples**

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

is\_not

Convenience function for is.null or is.na

## Description

Convenience function for is.null or is.na

### Usage

```
is_not(x)
```

### **Arguments**

Х

Input

## **Examples**

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

is\_string

Is input a string?

### Description

Is input a string?

## Usage

```
is_string(x)
```

## Arguments

Х

Input

## Details

Is input a string

iterms 29

#### Value

TRUE if string, else FALSE

#### **Examples**

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

iterms

Create a vector of interaction terms

### Description

Create a vector of interaction terms

### Usage

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

#### **Arguments**

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

## Value

Character vector of interaction term labels

### **Examples**

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

kurtosi

Exporting the kurtosi function from the psych package

## Description

Exporting the kurtosi function from the psych package

30 In

level\_list

Generate list of levels and unique values

### Description

Generate list of levels and unique values

### Usage

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

## Arguments

dat A data.frame

... Unquoted variable names to evaluate

### **Examples**

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

ln

Natural log

## Description

Natural log

## Usage

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

### **Arguments**

x Input variable

na.rm Remove missing values (default is TRUE)

## Value

Natural log of vector

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

loadcsv 31

loadcsv	Load a csv file with read.csv and read_csv

## Description

Load a csv file with read.csv and read\_csv

### Usage

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

### **Arguments**

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

#### Value

Data.frame with (some) variables converted to factors

|--|

## Description

Load a csv file with from a url

## Usage

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

## Arguments

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

32 loadrda\_url

#### Value

Data.frame with (some) variables converted to factors

loadr

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

### Description

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

#### Usage

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

## **Arguments**

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

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

#### Value

Data.frame in r\_data or in the calling environment

loadrda\_url

Load an rda file from a url

#### **Description**

Load an rda file from a url

#### Usage

```
loadrda_url(rda_url)
```

## **Arguments**

rda\_url

URL for the csv file

#### Value

Data.frame

make\_dt 33

make_dt	Make a pivot tabel in DT	

## Description

Make a pivot tabel in DT

#### Usage

```
make_dt(pvt, format = "none", perc = FALSE, dec = 3, search = "",
    searchCols = NULL, order = NULL)
```

#### **Arguments**

pvt	Return value from pivotr
format	Show Color bar ("color_bar"), Heat map ("heat"), or None ("none")
perc	Display numbers as percentages (TRUE or FALSE)
dec	Number of decimals to show
search	Global search. Used to save and restore state
searchCols	Column search and filter. Used to save and restore state
order	Column sorting. Used to save and restore state

#### **Details**

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

#### See Also

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

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

34 make\_expl

make_expl	Make a tabel of summary statistics in DT	
-----------	--	--

## Description

Make a tabel of summary statistics in DT

## Usage

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

#### **Arguments**

expl	Return value from explore
top	The variable (type) to display at the top of the table ("fun" for Function, "var" for Variable, and "byvar" for Group by
dec	Number of decimals to show
search	Global search. Used to save and restore state
searchCols	Column search and filter. Used to save and restore state
order	Column sorting. Used to save and restore state

#### **Details**

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

#### See Also

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

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

make\_funs 35

make\_funs

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

#### **Description**

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

### Usage

```
make_funs(x)
```

#### **Arguments**

Х

List of functions as strings

#### Value

List of functions to pass to dplyr in formula form

## **Examples**

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

make\_train

Generate a variable used to selected a training sample

## Description

Generate a variable used to selected a training sample

### Usage

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

## Arguments

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

nr Number of rows in the dataset

#### Value

0/1 variables for filtering

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

36 mean\_rm

 $\max\_rm$ 

 $Max\ with\ na.rm = TRUE$ 

## Description

Max with na.rm = TRUE

### Usage

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

## Arguments

Х

Input variable

#### Value

Maximum value

### **Examples**

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

mean\_rm

Mean with na.rm = TRUE

## Description

Mean with na.rm = TRUE

## Usage

```
mean_rm(x)
```

## Arguments

Х

Input variable

## Value

Mean value

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

median\_rm 37

median\_rm

 $Median \ with \ na.rm = TRUE$ 

# Description

Median with na.rm = TRUE

## Usage

```
median_rm(x)
```

# Arguments

Х

Input variable

#### Value

Median value

# **Examples**

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

min\_rm

 $Min\ with\ na.rm = TRUE$ 

# Description

Min with na.rm = TRUE

# Usage

```
min_rm(x)
```

# Arguments

Χ

Input variable

## Value

Minimum value

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

38 mutate\_each

 ${\tt mode\_rm}$ 

 $Mode\ with\ na.rm = TRUE$ 

# Description

Mode with na.rm = TRUE

# Usage

 $mode_rm(x)$ 

## **Arguments**

Х

Input variable

## Value

Mode value

# **Examples**

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

mutate\_each

Add tranformed variables to a data frame (NSE)

# Description

Add tranformed variables to a data frame (NSE)

## Usage

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

#### **Arguments**

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

# **Details**

Wrapper for dplyr::mutate\_each that allows custom variable name extensions

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

normalize 39

normalize

Normalize a variable x by a variable y

# Description

Normalize a variable x by a variable y

# Usage

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

## **Arguments**

x Input variable

y Normalizing variable

## Value

x/y

n\_missing

Number of missing values

# Description

Number of missing values

# Usage

```
n_missing(x)
```

## **Arguments**

Х

Input variable

#### Value

number of missing values

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

40 p10

p05

5th percentile

## Description

5th percentile

## Usage

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

#### **Arguments**

Χ

Input variable

na.rm

If TRUE missing values are removed before calculation

## Value

5th percentile

# **Examples**

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

p10

10th percentile

# Description

10th percentile

# Usage

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

## **Arguments**

Х

Input variable

na.rm

If TRUE missing values are removed before calculation

# Value

10th percentile

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

p25 41

p25

25th percentile

# Description

25th percentile

#### Usage

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

#### **Arguments**

Χ

Input variable

na.rm

If TRUE missing values are removed before calculation

# Value

25th percentile

# **Examples**

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

p75

75th percentile

# Description

75th percentile

# Usage

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

## **Arguments**

Χ

Input variable

na.rm

If TRUE missing values are removed before calculation

# Value

75th percentile

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

42 p95

p90

90th percentile

# Description

90th percentile

#### Usage

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

#### **Arguments**

Χ

Input variable

na.rm

If TRUE missing values are removed before calculation

## Value

90th percentile

# **Examples**

```
p90(rnorm(100))
```

p95

95th percentile

# Description

95th percentile

# Usage

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

## **Arguments**

Х

Input variable

na.rm

If TRUE missing values are removed before calculation

# Value

95th percentile

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

pivotr 43

pivotr	Create a pivot table using dplyr

## Description

Create a pivot table using dplyr

#### Usage

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

## **Arguments**

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

#### **Details**

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

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

plot.pivotr

plot.character

Don't try to plot strings

## Description

Don't try to plot strings

#### Usage

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

# Arguments

x A character returned from a function

... Any additional arguments

plot.pivotr

Plot method for the pivotr function

# Description

Plot method for the pivotr function

# Usage

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

#### **Arguments**

X	Return value from pivotr
type	Plot type to use ("fill" or "dodge" (default))
perc	Use percentage on the y-axis
flip	Flip the axes in a plot (FALSE or TRUE)
shiny	Did the function call originate inside a shiny app
custom	Logical (TRUE, FALSE) to indicate if ggplot object (or list of ggplot objects) should be returned. This opion can be used to customize plots (e.g., add a title, change x and y labels, etc.). See examples and http://docs.ggplot2.org/for options.

# Details

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

further arguments passed to or from other methods

print.gtable 45

#### See Also

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

# **Examples**

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

print.gtable

Print/draw method for grobs produced by gridExtra

# Description

Print/draw method for grobs produced by gridExtra

## Usage

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

# Arguments

x a gtable object

... further arguments passed to or from other methods

## **Details**

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

#### Value

A plot

publishers

Comic publishers

# Description

Comic publishers

#### Usage

```
data(publishers)
```

#### **Format**

A data frame with 3 rows and 2 variables

#### **Details**

List of comic publishers from <a href="http://stat545-ubc.github.io/bit001\_dplyr-cheatsheet">http://stat545-ubc.github.io/bit001\_dplyr-cheatsheet</a>.

<a href="http://stat545-ubc.github.io/bit001\_dplyr-cheatsheet">httml</a>. The dataset is used to illustrate data merging / joining. Description provided in attr(publishers, "description")</a>

radiant.data

radiant.data

#### **Description**

radiant.data

Launch Radiant in the default browser

#### Usage

```
radiant.data()
```

#### **Details**

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

```
radiant.data-deprecated
```

Deprecated function(s) in the radiant.data package

# Description

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

#### Usage

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

#### **Arguments**

... Parameters to be passed to the updated functions

#### **Details**

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

recode 47

recode

Exporting the recode function from the car package

# Description

Exporting the recode function from the car package

render

Method to render htmlwidgets

## Description

Method to render htmlwidgets

## Usage

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

## Arguments

object Object of relevant class to render

... Additional arguments

render.datatables

Method to render DT tabels

# Description

Method to render DT tabels

# Usage

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

# **Arguments**

object DT table plot

... Additional arguments

48 sdp\_rm

saver

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

## Description

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

# Usage

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

## **Arguments**

objname Name of the data.frame

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

#### Value

Data.frame in r\_data

sdp\_rm

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

# Description

Standard deviation for the population na.rm = TRUE

# Usage

```
sdp_rm(x)
```

## Arguments

Х

Input variable

#### Value

Standard deviation for the population

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

49  $sd\_rm$ 

sd\_rm

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

## Description

Standard deviation with na.rm = TRUE

# Usage

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

## **Arguments**

Х Input variable

Remove NAs (TRUE or FALSE) na.rm

## Value

Standard deviation

# **Examples**

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

serr

Standard error

## **Description**

Standard error

#### Usage

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

## **Arguments**

Х

Input variable

If TRUE missing values are removed before calculation na.rm

## Value

Standard error

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

50 show\_duplicated

set\_attr

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

#### **Description**

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

#### Usage

```
set_attr()
```

#### **Examples**

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

set\_class

Alias used to set the class for analysis function return

#### **Description**

Alias used to set the class for analysis function return

## Usage

```
set_class()
```

#### **Examples**

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

show\_duplicated

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

#### **Description**

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

#### Usage

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

## Arguments

Data frame to add transformed variables to

... Variables used to evaluate row uniqueness

sig\_stars 51

#### **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

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

#### **Description**

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

#### Usage

```
sig_stars(pval)
```

## **Arguments**

pval

Vector of p-values

#### **Details**

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

#### Value

A vector of stars

#### **Examples**

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

skew

Exporting the skew function from the psych package

# Description

Exporting the skew function from the psych package

52 sshh

square

Calculate square of a variable

# Description

Calculate square of a variable

# Usage

```
square(x)
```

# Arguments

Χ

Input variable

## Value

x^2

sshh

Hide warnings and messages and return invisible

# Description

Hide warnings and messages and return invisible

# Usage

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

## **Arguments**

... Inputs to keep quite

## **Details**

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

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

sshhr 53

sshhr

Hide warnings and messages and return result

## Description

Hide warnings and messages and return result

# Usage

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

## Arguments

... Inputs to keep quite

## **Details**

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

## **Examples**

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

standardize

Standardize

# Description

Standardize

## Usage

```
standardize(x)
```

#### **Arguments**

Х

Input variable

#### Value

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

54 summary.explore

store

Method to store variables in a dataset in Radiant

#### **Description**

Method to store variables in a dataset in Radiant

## Usage

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

#### **Arguments**

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

summary.explore

Summary method for the explore function

#### **Description**

Summary method for the explore function

#### Usage

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

#### **Arguments**

object Return value from explore

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

dec Number of decimals to show

... further arguments passed to or from other methods

#### **Details**

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

# See Also

explore to generate summaries

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

summary.pivotr 55

summary	nivotr
Julilliai y	PIVOCI

Summary method for pivotr

#### **Description**

Summary method for pivotr

#### Usage

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

## **Arguments**

object	Return value from pivotr
perc	Display numbers as percentages (TRUE or FALSE)
dec	Number of decimals to show
chi2	If TRUE calculate the chi-square statistic for the (pivot) table
shiny	Did the function call originate inside a shiny app
	further arguments passed to or from other methods

#### **Details**

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

## See Also

pivotr to create the pivot-table using dplyr

## **Examples**

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

```
sum_rm
```

 $Sum\ with\ na.rm = TRUE$ 

## Description

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

#### Usage

```
sum_rm(x)
```

56 table2data

#### **Arguments**

x Input variable

#### Value

Sum of input values

#### **Examples**

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

superheroes

Super heroes

## Description

Super heroes

#### Usage

data(superheroes)

#### **Format**

A data frame with 7 rows and 4 variables

#### **Details**

List of super heroes from <a href="http://stat545-ubc.github.io/bit001\_dplyr-cheatsheet.html">http://stat545-ubc.github.io/bit001\_dplyr-cheatsheet.html</a>. The dataset is used to illustrate data merging / joining. Description provided in attr(superheroes, "description")

table2data

Create data.frame from a table

## Description

Create data.frame from a table

#### Usage

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

## **Arguments**

dat Data.frame

freq Column name with frequency information

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

tidy 57

tidy

Exporting the tidy from broom

# Description

Exporting the tidy from broom

titanic

Survival data for the Titanic

## Description

Survival data for the Titanic

## Usage

```
data(titanic)
```

#### **Format**

A data frame with 1043 rows and 10 variables

#### **Details**

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

varp\_rm

 $Variance\ for\ the\ population\ na.rm = TRUE$ 

## Description

Variance for the population na.rm = TRUE

## Usage

```
varp_rm(x)
```

# Arguments

Χ

Input variable

# Value

Variance for the population

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

58 viewdata

var\_rm

 $Variance\ with\ na.rm = TRUE$ 

# Description

Variance with na.rm = TRUE

# Usage

```
var_rm(x)
```

#### **Arguments**

Х

Input variable

## Value

Variance

# **Examples**

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

viewdata

View data

# Description

View data

# Usage

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

# Arguments

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

# Details

View, search, sort, etc. your data

visualize 59

#### **Examples**

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

visualize

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

#### **Description**

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

## Usage

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

#### **Arguments**

dataset	Dataset name (string). This can be a dataframe in the global environment or an element in an $r$ _data list from Radiant
xvar	One or more variables to display along the X-axis of the plot
yvar	Variable to display along the Y-axis of the plot (default = "none")
comby	Combine yvars in plot (TRUE or FALSE, FALSE is the default)
combx	Combine xvars in plot (TRUE or FALSE, FALSE is the default)
type	Type of plot to create. One of Histogram ('hist'), Density ('density'), Scatter ('scatter'), Line ('line'), Bar ('bar'), or Box-plot ('box')
facet_row	Create vertically arranged subplots for each level of the selected factor variable
facet_col	Create horizontally arranged subplots for each level of the selected factor variable
color	Adds color to a scatter plot to generate a heat map. For a line plot one line is created for each group and each is assigned a different color
fill	Group bar, histogram, and density plots by group, each with a different color
bins	Number of bins used for a histogram (1 - 50)
smooth	Adjust the flexibility of the loess line for scatter plots
fun	Set the summary measure for line and bar plots when the X-variable is a factor (default is "mean"). Also used to plot an error bar in a scatter plot when the X-variable is a factor. Options are "mean" and/or "median"
check	Add a regression line ("line"), a loess line ("loess"), or jitter ("jitter") to a scatter plot

60 weighted.sd

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)

10000")

shiny Logical (TRUE, FALSE) to indicate if the function call originate inside a shiny

app

custom Logical (TRUE, FALSE) to indicate if ggplot object (or list of ggplot objects)

should be returned. This opion can be used to customize plots (e.g., add a title, change x and y labels, etc.). See examples and http://docs.ggplot2.org/

for options.

#### **Details**

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

#### Value

Generated plots

#### **Examples**

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

weighted.sd

Weighted standard deviation

#### **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)

which.pmax 61

#### **Details**

Calculated a weighted standard deviation

which.pmax

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

## Description

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

#### Usage

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

# Arguments

... Numeric or character vectors of the same length

#### Value

Vector of rankings

## **Examples**

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

which.pmin

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

## Description

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

## Usage

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

#### **Arguments**

... Numeric or character vectors of the same length

#### Value

Vector of rankings

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

62 xtile

xtile

Create a quintile (or decile) index

# Description

Create a quintile (or decile) index

## Usage

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

## **Arguments**

x Numeric variable

n number of bins to create

rev Reverse the order of the xtiles

## **Details**

Same as stata

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

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