Package 'taRifx'

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Type Package

Title Collection of Utility and Convenience Functions

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Description A collection of various utility and convenience functions.

License GPL (>= 2)

LazyLoad yes

Suggests xtable, grid, lattice, caTools, pspline, ggplot2, gdata, RSQLite, data.table, stringr

Imports reshape2, plyr

Collate 'Contributed.R' 'Rfunctions.R'

NeedsCompilation no

Repository CRAN

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R topics documented:

`as.data.frame.by` *Convert the results of by() to a data.frame.*

Description

Converts the results of by() to a data.frame if possible, (reducing dimensionality and adding repetition as necessary)

Usage

```
 ## S3 method for class 'by'
as.data.frame(x, row.names = NULL,
   optional = FALSE,
   colnames = paste("IDX", seq(length(dim(x))), sep = ""),
   na.rm = TRUE, ...)
```

Arguments

x	The by object
row.names	Names of the rows. If NULL, function tries guessing them
optional	Ignored.
colnames	Names of columns
na.rm	Remove NAs or not.
...	Pass-alongs.

Value

A data.frame.

Examples

```
test.by <- by( ChickWeight$weight, ChickWeight$Diet, mean)
test.by
class(test.by)
str(test.by)
test.df <-as.data.frame(test.by)
str(test.df)
```

---

as.matrix.by *Coerces a by object into a matrix (only tested on a 2d objects).*

Description

Coerces a by object into a matrix (only tested on a 2d objects).

Usage

```
  ## S3 method for class 'by'
as.matrix(x, ...)
```

Arguments

x	is a by object to convert to a matrix
...	ignored

Value

a matrix

autoplot.microbenchmark

Autoplot method for microbenchmark objects: Prettier graphs for microbenchmark using ggplot2

Description

Uses ggplot2 to produce a more legible graph of microbenchmark timings

Usage

```
 ## S3 method for class 'microbenchmark'
autoplot(object, ...,
   y_max = max(by(object$time, object[["expr"]], uq)) * 1.05)
```

Arguments

object	A microbenchmark object
...	Ignored
y_max	The upper limit of the y axis (defaults to 5 percent more than the maximum value)

Value

A ggplot2 plot

between

Classify values into groups based on which numbers they're between

Description

Classify values into groups based on which numbers they're between. quantile.cutpoints creates a data.frame of quantiles for feeding into e.g. categorize()

Usage

```
between(vec, cutpoints)

bin(vec, n = 10)

quantile_cutpoints(vec, probs)
```

Arguments

vec	Numeric vector to classify
cutpoints	Vector listing what values the grouping should be done on. Should include the max and the min in this list as well.
n	Number of groups to bin into
probs	Probabilities at which to create cutpoints

Value

Vector of length(vec) indicating which group each element is in (for between). Or vector of length(vec) indicating the lower bound of the group that it's in.

See Also

categorize

Examples

```
test <- runif(100)
between(test,c(0,.1,.5,.9,1))
bin(test,n=5)
```

---

bytable *Produces a nice summary table by groupings*

Description

produces a nice summary table by groupings, suitable for use with latex.table.by().

Usage

```
bytable(datavec, indices, ops = c(quote(mean)),
  ops.desc = list(mean = "Mean"), na.rm = TRUE)
```

Arguments

datavec	Vector to be analyzed
indices	Indices should be a list of grouping vectors, just like you would pass to -by-, but with sensible names for each vector
ops	Vector of quote'd operations to perform
ops.desc	Vector of length length(ops) containing the column labels for the operations.
na.rm	Remove NAs or not
...	other arguments to pass to by

Value

data.frame

See Also

latex.table.by

Examples

```
bytable(runif(100),indices=list(rep(c('a','b'),50)))
```

`categorize` *Categorize a vector based on a data.frame with two columns, the low and high end points of each category.*

Description

Categorize a vector based on a data.frame with two columns, the low and high end points of each category.

Usage

```
categorize(vec, cutpoints.df, match.min = TRUE,
  names = TRUE)
```

Arguments

`vec`	vector to categorize
`cutpoints.df`	quantile_cutpoints will create a data.frame of the proper format here
`match.min`	Whether to include or exclude the minimum value
`names`	Return names or row numbers

Value

Categorized values

See Also

`quantile_cutpoints`

compareplot *Bar plot divided by three groupings*

Description

Bar plot divided by three groupings

Usage

```
compareplot(formula, data.frame, show.outlines = FALSE,
  main = "", x.label = "", div.axis.major = 10,
  div.axis.minor = 20, log.x = FALSE,
 colors.plot = c("salmon", "blue", "olivedrab", "cyan", "brown", "green", "purple"),
  panel = "panel.tuftebox", box.width.large.scale = 0.4,
  box.width.small.scale = 0.25, box.show.mean = TRUE,
  box.show.box = FALSE, box.show.whiskers = FALSE, ...)
```

Arguments

formula	Plot formula. Of the form: ~cts|group1*group2*group3 , where cts is the continuous data you want to make boxplots out of, and group_ are factors to group by in descending heirarchical order.
data.frame	Data.frame containing data
show.outlines	Whether to include boxes around plots or leave it open
main	Plot text
x.label	X axis label
div.axis.major	How many major axis ticks to use
div.axis.minor	How many minor axis ticks to use
log.x	Log transform the x data?
colors.plot	Plot colors
panel	Panel function to use
box.width.large.scale	box.width.large.scale here~~
box.width.small.scale	box.width.small.scale here~~
box.show.mean	here~~
box.show.box	here~~
box.show.whiskers	box.show.whiskers here~~
...	Other arguments to pass to lattice function

Value

Plot

Examples

```
library(datasets)
cw <- transform(ChickWeight,
 Time = cut(ChickWeight$Time,4)
 )
cw$Chick <- as.factor( sample(LETTERS[seq(3)], nrow(cw), replace=TRUE) )
levels(cw$Diet) <- c("Low Fat","Hi Fat","Low Prot.","Hi Prot.")
compareplot(~weight | Diet * Time * Chick,
 data.frame=cw ,
 main = "Chick Weights",
 box.show.mean=FALSE,
 box.show.whiskers=FALSE,
 box.show.box=FALSE
 )
```

---

daysofweek *Return a vector of the days of the week, in order*

Description

Return a vector of the days of the week, in order

Usage

```
daysofweek(start.day = "Monday")
```

Arguments

start.day	Day of the week to begin the week with (as a text item)

Value

Character vector of length 7

Examples

```
daysofweek("Sunday")
```

destring — *Convert character vector to numeric, ignoring irrelevant characters.*

Description

Convert character vector to numeric, ignoring irrelevant characters.

Usage

```
destring(x, keep = "0-9.-")
```

Arguments

x	A vector to be operated on
keep	Characters to keep in, in bracket regular expression form. Typically includes 0-9 as well as the decimal separator (. in the US and , in Europe).

Value

vector of type numeric

Examples

```
test <- "50,762.83a"
destring(test)
```

distinct — *Returns number of distinct observations in each column of a data frame or in a vector*

Description

Returns number of distinct observations in each column of a data frame or in a vector

Usage

```
distinct(input, na.rm = TRUE)
```

Arguments

input	data.frame or vector
na.rm	remove nas or not

Value

Num of distinct obs

Examples

```
x <- sample(letters[1:3],10,replace=TRUE)
#distinct(x)
```

---

evens *Shortcut functions to return the odd and even values from a vector*

Description

Takes an integer vector and returns every odd or even element

Usage

```
evens(vec)
```

Arguments

vec	Integer vector

Value

Returns an integer vector consisting of only the odd/even elements.

Examples

```
x <- as.integer(c(6,3,4,7,8,1047482,7))
evens(x)
odds(x)
```

---

expandDF *Functions to manipulate data frames*

Description

expandDF takes a dataframe and replicates the chosen observations n times

Usage

```
expandDF(df, obs, numtimes = 1)

splitDF(df, splitvar)

unsplitDF(splitdfs)
```

Arguments

df	Data.frame to be manipulated
obs	Vector to select rows of df (e.g. vector of row numbers or a boolean of length nrow(df))
numtimes	Number of times to replicate
splitvar	Name of variable which defines groups on which df will be split
splitdfs	List of data.frames to recombine (generally created by splitDF)

Details

splitDF takes a dataframe and splits it into a bunch of data.frames held in a list, according to one variable

unsplitDF takes a list of data.frames produced by splitDF and returns them as one appended data.frame

Value

expandDF and unsplitDF return a data.frame splitDF returns a list of data.frames

Examples

```
library(datasets)
# Duplicate a dataset
expandDF(sleep,TRUE)
# Expand the final observation
expandDF(sleep,nrow(sleep),numtimes=10)
# Split a data.frame by group
s.df <- splitDF(sleep,'group')
s.df
# Reconstitute original data.frame
unsplitDF(s.df)
```

---

fpart *Obtain the fractional part of a numeric*

Description

Takes a numeric vector and returns a vector of the numbers after the decimal place

Usage

```
fpart(vec)
```

Arguments

vec	A numeric vector of any length

Value

A vector of the same length as the input vec containing only the decimal component.

Examples

```
x <- runif(100)
fpart(x)
```

`hist_horiz` *Kludgy horizontal histogram function (really should just fix the lattice equivalent)*

Description

Kludgy horizontal histogram function (really should just fix the lattice equivalent)

Usage

```
hist_horiz(formula, data, n = 20)
```

Arguments

`formula`	Plot formula
`data`	Data.frame
`n`	Number of groups

Value

plot

See Also

hist

Examples

```
library(lattice)
library(datasets)
hist_horiz(~ len | supp, data=ToothGrowth, n=5)
```

homogenous *Returns whether a vector is homogenous or not*

Description

Returns TRUE/FALSE if every element of vector is identical/not.

Usage

```
homogenous(vec)
```

Arguments

vec	Vector to be compared

Value

TRUE if every element of a vector is identical; FALSE otherwise.

See Also

See also all any

Examples

```
homogenous(c(rep("A",10),"A"))
homogenous(c(rep("A",10),"B"))
```

iapply *Iteratively (recursively) apply a function to its own output*

Description

Iteratively (recursively) apply a function to its own output

Usage

```
iapply(X, FUN, init, ...)
```

Arguments

X	a vector of first arguments to be passed in
FUN	a function taking a changing (x) and an initial argument (init)
init	an argument to be "worked on" by FUN with parameters x[1], x[2], etc.
...	Arguments passed to FUN.

Value

the final value, of the same type as init

Examples

```
vec <- "xy12"
mylist <- list( c("x","a"), c("y","b"), c("a","f") )
iapply( mylist , FUN=function(repvec,x) {
  gsub(repvec[1],repvec[2],x)
}, init=vec )
```

`japply` *japply: Judiciously sapply to only selected columns*

Description

japply is a wrapper around sapply that only sapplys to certain columns

Usage

```
japply(df, sel, FUN = function(x) x, ...)
```

Arguments

`df`	data.frame
`sel`	A logical vector or vector of column numbers to select
`FUN`	The function to apply to selected columns
`...`	Pass-alongs to sapply

Value

A data.frame

`last` *Convenience functions to return the last/first element of a vector*

Description

Convenience functions to return the last/first element of a vector

Usage

```
last(vec)
```

Arguments

vec	Vector of any type

Value

Vector of length 1 of same type as vec

Examples

```
test <- seq(10)
first(test)
last(test)
```

---

latex.table.by *Exports a latex table with the first N columns being multirow grouping variables.*

Description

Given a data.frame with the first N columns of grouping variables, makes each group print nicely in a LaTeX table.

Usage

```
latex.table.by(df, num.by.vars = 1, ...)
```

Arguments

df	data.frame with first num.by.vars columns being grouping variables
num.by.vars	Number of columns to interpret as grouping vars
...	Other arguments to pass to xtable

Value

A modified xtable object.

See Also

xtable, bytable

Examples

```
my.test.df <- data.frame(grp=rep(c("A","B"),each=10),data=runif(20))
library(xtable)
latex.table.by(my.test.df)
## Not run:
  print(latex.table.by(test.df), include.rownames = FALSE,
     include.colnames = TRUE, sanitize.text.function = force)
#   Then add \usepackage{multirow} to the preamble of your LaTeX document
#   For longtable support, add ,tabular.environment='longtable' to the print
#     command (plus add in ,floating=FALSE), then \usepackage{longtable} to
#     the LaTeX preamble

## End(Not run)
```

`merge.list` *Method to merge two lists Matches names of each list element and combines any sub-elements*

Description

Method to merge two lists Matches names of each list element and combines any sub-elements

Usage

```
  ## S3 method for class 'list'
merge(x, y, ...)
```

Arguments

`x`	First list
`y`	Second list
`...`	Other arguments

Value

A list

Examples

```
x <- list( A=list(p=runif(5)), B=list(q=runif(5)) )
y <- list( A=list(r=runif(5)), C=list(s=runif(5)) )
merge.list(x,y)
```

middle.group *Return a vector containing the locations of the middle of every group in a vector, either as a numerical index or as a TRUE/FALSE boolean.*

Description

This function uses run length encoding to determine the middle of every group of repeated values within a larger vector.

Usage

```
middle.group(vec, type = "tf")
```

Arguments

vec	Any vector which you want to know the middle of.
type	Either "tf" to return a boolean or "loc" to return a set of numerical locations.

Value

If type=="tf": Boolean of length length(vec) containing TRUE if the middle of a grouping and FALSE if not. If type=="loc": Vector of length equal to the number of groups in vec, containing locations of the group centers. Ties (for groups of even length) are broken by rounding up.

Examples

```
test <- c(1,2,2,2,2,2,2,2,2,2,1)
middle.group(test)
middle.group(test,type="loc")
```

munch *Recursively delete entries containing 'what' before entry pointed to by 'which'*

Description

Recursively delete entries containing 'what' before entry pointed to by 'which'

Usage

```
munch(x, wch, what = "")
```

Arguments

x	data vector
wch	Vector of indices to check preceding element for 'what'
what	What to check for and delete if found in preceding element

Value

A vector of the same type as x with all the ‘what‘’s removed if they were at the ‘which‘-(1,2,3...) locations

Examples

```
x <- c("a","","b","","","","","c","d","","","","e","")
munch( x, c(3,8,9,13) )
```

`panel.ecdf` *Various panel functions*

Description

panel.ecdf is a panel function for xyplot to create lattice plots of the empirical CDF. panel.densityplot.enhanced is a panel function for densityplot to add in descriptives as text. panel.xyplot_rug is an xyplot panel function with rug plots on x and y axes.

Usage

```
panel.ecdf(x, y, lines = TRUE, ...)

panel.densityplot.enhanced(x, ...)

panel.xyplot_rug(x, y, rug.color = "grey", ...)
```

Arguments

`x`	Numerical vector
`y`	Numerical vector
`lines`	Whether to connect the points with lines or not
`...`	Arguments to pass along to other lattice functions
`rug.color`	Color of rugplots

Value

Lattice panel object

prettify *Function to prettify the output of another function using a 'var.labels' attribute This is particularly useful in combination with read.dta et al.*

Description

Function to prettify the output of another function using a 'var.labels' attribute This is particularly useful in combination with read.dta et al.

Usage

```
prettify(dat, expr)
```

Arguments

dat	A data.frame with attr 'var.labels' giving descriptions of variables
expr	An expression to evaluate with pretty var.labels

Value

The result of the expression, with variable names replaced with their labels

Examples

```
testDF <- data.frame( a=seq(10),b=runif(10),c=rnorm(10) )
attr(testDF,"var.labels") <- c("Identifier","Important Data","Lies, Damn Lies, Statistics")
prettify( testDF, quote(str(dat)) )
```

readdir *Loads all readable files in a directory into a list, with names according to the filenames*

Description

Loads all readable files in a directory into a list, with names according to the filenames

Usage

```
readdir(path, exclude = "",
  filename.as.variable = "filename", stack = FALSE)
```

Arguments

path	is the directory path
exclude	is a regular expression. Matching filenames will be excluded
filename.as.variable	is a variable name to store the filename. "" means it will not be stored.
stack	if true attempts to stack the resultant data.frames together into a single data.frame

Value

A list of data.frames or a single data.frame

---

remove.factors *Converts all factors in a data.frame to character.*

Description

Converts all factors in a data.frame to character.

Usage

```
remove.factors(df)
```

Arguments

df	A data.frame

Value

data.frame

Examples

```
my.test.df <- data.frame(grp=rep(c("A","B"),10),data=runif(20))
remove.factors(my.test.df)
```

rep_along *Repeat a vector until it matches the length of another vector*

Description

Repeat a vector until it matches the length of another vector

Usage

```
rep_along(x, along.with)
```

Arguments

x	Vector to be repeated
along.with	Vector whose length to match

Value

A vector of same type as x

Examples

```
rep_along(1:4,letters)
```

reshapeasy *reshapeasy: Easier reshaping from "wide" to "long" and back again*

Description

reshapeasy is a wrapper around base R's reshape which allows for saner syntax. In particular, it makes it possible to reverse the operation by only specifying that the direction change (e.g. the names of the arguments are consistent between the direction of reshaping).

Usage

```
reshapeasy(data, direction,
  id = (sapply(data, is.factor) | sapply(data, is.character)),
  vary = sapply(data, is.numeric), omit = c("_", "."),
  vars = NULL, ...)
```

Arguments

data	A data.frame to be reshaped
direction	"wide" or "long"
vars	he names of the (stubs of) the variables to be reshaped (if omitted, defaults to everything not in id or vary)
id	The names of the variables that identify unique observations
vary	he variable that varies. Going to wide this variable will cease to exist. Going to long it will be created.
omit	vector of characters which are to be omitted if found at the end of variable names (e.g. price_1 becomes price in long)
...	Options to be passed to stats::reshape

Value

A data.frame

Author(s)

Written with the help of the StackOverflow R community, see http://stackoverflow.com/questions/10055602/wrapping-base-r-reshape-for-ease-of-use

---

roundnear *Rounds a numeric vector to arbitrary values (not just decimal values as with round) or to a specified number of significant digits.*

Description

Rounds a numeric vector to arbitrary values (not just decimal values as with round). E.g. allows you to round to nearest 0.3 instead of just nearest 1 or 0.1

Usage

```
roundnear(vec, roundvec)

round_sigfig(vec, digits = 2)
```

Arguments

vec	numeric vector
roundvec	What value to round things to (e.g. nearest 1, 10, 0.3, etc.). Typically a single item to apply to all of vec. If of length greater than 1, usual wrapping rules apply.
digits	Number of significant digits to round to

Value

Rounded numeric vector of length length(vec)

References

http://en.wikipedia.org/wiki/Significant_figures

Examples

```
roundnear( runif(10) , .03 )
```

`searchPattern` *Create a vector that starts with a given number and widens out*

Description

Create a vector that starts with a given number and widens out

Usage

```
searchPattern(center = 0, length = 5, interval = 1)
```

Arguments

`center`	Number to center search pattern around
`length`	Number of elements in search pattern
`interval`	Distance between each element

Value

numeric vector

Examples

```
library(gdata)
searchPattern()
```

shift *Shifts a vector's elements left or right by N elements.*

Description

Shifts a vector's elements left or right by N elements.

Usage

```
 shift(x, ...)

 ## Default S3 method:
shift(x, n = 1, wrap = TRUE,
   pad = FALSE, ...)

 ## S3 method for class 'data.frame'
shift(x, ...)
```

Arguments

x	A vector to be operated on
n	Number of rows to shift by (if negative, shift to right instead of left)
wrap	Whether to wrap elements or not (adds the entry at the beginning to the end)
pad	Whether to pad with NAs or not. pad does nothing unless wrap is false, in which case it specifies whether to pad with NAs
...	Other items to pass along

Value

vector of the same type as vec

Examples

```
test <- seq(10)
shift(test)
```

sides *Figure out how many "sides" a formula has See also SimonO101's answer at http://stackoverflow.com/a/16376939/636656*

Description

Figure out how many "sides" a formula has See also SimonO101's answer at http://stackoverflow.com/a/16376939/636656

Usage

```
sides(x, ...)

## Default S3 method:
sides(x, ...)

## S3 method for class 'formula'
sides(x, ...)
```

Arguments

x	The object to calculate the sidedness of
...	Other items to pass along

Value

An integer of the number of sides

Examples

```
test <- list( ~ a + b, a ~ b + c, b + c ~ a, ~ a ~ b, a ~ b ~ c, a~b+c|d~c~d~e~f~g )
sapply(test,sides)
```

sort.data.frame *Sort a data.frame*

Description

Sorts a data frame by one or more variables

Usage

```
## S3 method for class 'data.frame'
sort(x, decreasing = NULL, formula,
   ...)
```

Arguments

x	Data.frame to sort
formula	Formula by which to sort the data.frame (e.g. ~group1+group2 sorts first by group1 then by group2)
decreasing	Ignored. Exists for compatibility with generic S3 method.
...	Used to pass ,drop=FALSE to [

Value

Returns a sorted data.frame

Note

Modifications by Ari Friedman and Roman Lustrik Original Author: Kevin Wright http://tolstoy.newcastle.edu.au/R/help/04/
Some ideas from Andy Liaw http://tolstoy.newcastle.edu.au/R/help/04/07/1076.html Use + for ascending, - for decending. Sorting is left to right in the formula

If you are Kevin Wright, please contact me. I have attempted to reach you by every means thinkable, to no avail. My assumption is that this is in the public domain since you posted it for others to use, but please tell me if that is not the case.

Author(s)

Kevin Wright, with generic compatibility by Ari B. Friedman

See Also

arrange

Examples

```
library(datasets)
sort.data.frame(ChickWeight,formula=~weight+Time)

mydf <- data.frame(col1 = runif(10))
rownames(mydf) <- paste("x", 1:10, sep = "")
sort(mydf, f = ~col1) # drops a dimension
sort(mydf, f = ~col1, drop = FALSE) # does not drop a dimension (returns a data.frame)
```

---

splitc *Split data over columns*

Description

Split data column-wise on `data.frame`, `matrix` and `array` or element-wise on a `list`.

Usage

```
splitc(X, INDEX, FUN = NULL, ...)
```

Arguments

X	A data.frame, matrix, array or a list.
INDEX	A factor of length(X) (number of columns or list elements). If not a factor, it will be coerced into one.
FUN	A function to be applied to individual subset of data (each factor level). If not provided (NULL), raw (split) data is returned.
...	Additional arguments to FUN.

Details

Function splits a data.frame, matrix and array column-wise according to INDEX and list is sliced according to INDEX. Output is returned as a list of the same length as the number of levels in INDEX.

Value

A list of the same length as there are factor levels in INDEX.

Note

Simplification sensu tapply is not yet implemented.

Author(s)

Roman Lustrik <roman.lustrik@biolitika.si>

See Also

tapply, by, aggregate, apply, split

Examples

```
my.list <- list(a = runif(5), b = runif(5), c = runif(5), d = runif(5), e = runif(10),
f = runif(10), g = runif(10), h = runif(10), i = runif(10), j = runif(10))
my.df <- as.data.frame(my.list)
my.matrix <- as.matrix(my.df)

ind <- factor(c(1,1,1,1, 2,3, 4,4,4,4))
ind2 <- factor(c(1,1,1,1, 2,3, 4,4,4,4), levels = 1:5)

# Applies mean to each, you must use \code{colMeans},
#   as \code{mean} is deprecated for \code{data.frame}s
splitc(X = my.df, INDEX = ind, FUN = colMeans)
splitc(X = my.matrix, INDEX = ind2) # level 5 empty because not populated
splitc(X = my.list, INDEX = ind, FUN = sum) # applied to elements INDEX-wise
```

stack.list *Stack lists into data.frames*

Description

Takes two types of data: (1) a list of data.frames, (2) a list of vectors, which it interprets as rows of a data.frame

Usage

```
 ## S3 method for class 'list'
stack(x, label = FALSE, ...)
```

Arguments

x	A list of rbindable objects (typically data.frames)
label	If false, drops labels
...	Ignored

Details

Method of stack for lists of data.frames (e.g. from replicate()) Takes two types of data:

Value

Typically a data.frame

Examples

```
dat <- replicate(10, data.frame(x=runif(2),y=rnorm(2)), simplify=FALSE)
str(dat)
stack(dat)
```

tab *Table function which lists NA entries by default This is a simple wrapper to change defaults from the base R table()*

Description

Table function which lists NA entries by default This is a simple wrapper to change defaults from the base R table()

Usage

```
tab(..., exclude = NULL,
  useNA = c("no", "ifany", "always"), deparse.level = 1)
```

Arguments

...	one or more objects which can be interpreted as factors (including character strings), or a list (or data frame) whose components can be so interpreted. (For as.table and as.data.frame, arguments passed to specific methods.)
exclude	levels to remove for all factors in .... If set to NULL, it implies useNA = "always". See 'Details' for its interpretation for non-factor arguments.
useNA	whether to include NA values in the table. See 'Details'.
deparse.level	controls how the default dnn is constructed. See 'Details'.

Value

tab() returns a contingency table, an object of class "table", an array of integer values

See Also

table

---

title.page.new *Plot a title page containing the given text. Good for breaking up sections of plot PDFs.*

Description

Plot a title page containing the given text. Good for breaking up sections of plot PDFs.

Usage

```
title.page.new(title.text = "")
```

Arguments

title.text	Text to plot on its own page

Value

Plot

Examples

```
title.page.new("Page break!")
```

trues *Return vector of equal length containing all TRUEs*

Description

Takes a vector and returns a vector of equal length containing all trues (used for selecting all of a given vector)

Usage

```
trues(vec)
```

Arguments

vec	any vector (or valid object for `length`)

Value

a vector of TRUEs of the length of the object passed to it

Examples

```
x <- runif(100)
trues(x)
```

unfactor.data.frame *Convert all factors to character*

Description

Convert all factors to character

Usage

```
unfactor.data.frame(x)
```

Arguments

x	data.frame

Value

data.frame

`write.sanitized.csv` *Outputs a sanitized CSV file for fussy input systems e.g. ArcGIS and Mechanical Turk Performs three cleansing actions: converts text to latin1 encoding, eliminates funny characters in column names, and writes a CSV without the leading row.names column*

Description

Outputs a sanitized CSV file for fussy input systems e.g. ArcGIS and Mechanical Turk Performs three cleansing actions: converts text to latin1 encoding, eliminates funny characters in column names, and writes a CSV without the leading row.names column

Usage

```
write.sanitized.csv(x, file = "", ...)
```

Arguments

`x`	The data.frame to clean and write
`file`	The filename to write to
`...`	Arguments to pass to write.csv

Value

NULL

`xtable.CrossTable` *Add in methods to handle CrossTable objects in xtable*

Description

Add in methods to handle CrossTable objects in xtable

Usage

```
## S3 method for class 'CrossTable'
xtable(x, caption = NULL,
   label = NULL, align = NULL, digits = NULL,
   display = NULL, beta.names = NULL, ...)
```

Arguments

x	Model object
caption	Caption for table
label	See ?xtable
align	See ?xtable
digits	See ?xtable
display	See ?xtable
beta.names	See ?xtable
...	Arguments to pass to xtable

Value

xtable object

See Also

xtable

---

xtable.lme *Add in methods to handle LME objects in xtable*

Description

Add in methods to handle LME objects in xtable

Usage

```
xtable.lme(x, caption = NULL, label = NULL, align = NULL,
  digits = NULL, display = NULL, beta.names = NULL, ...)
```

Arguments

x	Model object
caption	Caption for table
label	See ?xtable
align	See ?xtable
digits	See ?xtable
display	See ?xtable
beta.names	See ?xtable
...	Arguments to pass to xtable

Value

xtable object

See Also

xtable

`xtablelm` *Produces the output of an lm object as it appears in the R console when you type summary(lmobject)*

Description

Produces the output of an lm object as it appears in the R console when you type summary(lmobject)

Usage

```
xtablelm(lm.object, titref, labname, extracaption = NULL)
```

Arguments

`lm.object`	the name of your linear model object that you want to make a summary table for.
`titref`	the label name of the equation you made in Latex to cross reference
`labname`	the label name you want for this table
`extracaption`	adds whatever text string you pass to the title of the table.

Value

xtable object

See Also

xtable

Examples

```
##
```

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