Package 'eatTools'

December 17, 2013

Type Package

Title eatTools

Version 0.0.9	
Depends R (>= 2.14.0), eatData	
Imports psych, xlsx, car, plyr	
Date 2012-12-12	
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Description A collection of tools for the eat packages	
License GPL (>= 2)	
LazyLoad yes	
LazyData yes	
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asNumericIfPossible

Convert Columns of a Data Frame Into Numeric Values If Possible

Description

This function converts all columns of a data frame to class numeric for which this conversion is possible i.e. without creating NA when it fails. Non-convertible columns are maintained. Optionally, only a logical vector indicating which columns are convertible is returned.

Usage

```
asNumericIfPossible(dat, set.numeric = TRUE, transform.factors = FALSE, maintain.factor.scores = TRUE, verbose = TRUE)
```

Arguments

dat A data frame which should be converted.

set.numeric Logical: If TRUE, a data frame with all convertible columns converted to class

numeric is returned. If FALSE, a logical vector indicating which columns are

convertible to class numeric.

transform.factors

Logical indicating whether columns of class factor should be converted. If FALSE, columns of class factor are maintained. If TRUE, conversion of factors

is attempted.

maintain.factor.scores

Logical: If TRUE, conversion of the factor levels is attempted

(like in as.numeric(as.character(f))). If FALSE, the internal codes of the factor are returned (like in as.numeric(f)). See 'Details'. This argument is

only evaluated if transform. factors = TRUE.

verbose Logical: If TRUE, information about the class of the columns in the data.frame is

given on the console.

Details

In R, factors may represent ordered categories or categorical variables. Depending on the meaning of the variable, a conversion of the nominal values (of a factor variable) to numeric values may be desirable or not. The arguments transform.factors and maintain.factor.scores specify if and how factor variables should be treated. See examples.

Value

Either a logical vector indicating which columns in the data frame are convertible to class numeric according to the specified conditions or a data frame in which all convertible columns are converted to class numeric.

Author(s)

Sebastian Weirich

collapseMissings 3

Examples

collapseMissings

Recode Character Missings of Different Types to 0 or NA

Description

This function is used to recode character missings in datasets that were prepared with functions from the eatPrep package to 0 or NA. It is called by several functions of the eat package family.

Usage

```
collapseMissings(dat, missing.rule = NULL, items)
```

Arguments

data frame containing character missings (e.g. type mbd - missing by design)

missing.rule

A list with definitions how to recode the different types of missings in the dataset. If NULL, the default described in 'Details' is used.

A character vector containing the column names of the data frame for which character missings are to be recoded.

Details

One of the main ideas of the eat package family is that different types of missing values should remain distinguishable during data preparation, thus allowing the user to flexibly recode them to different values during the IRT scaling process. collapseMissings can be used to facilitate the recoding of the different types of character missings before scaling or when exporting the data to other software packages (e. g., SPSS).

The eat package family currently supports six different types of missings, namely

mvi (text volume insufficient): used in writing tasks if a person wrote to little to evaluate whether they met a specific criterion.

mnr (missing not reached): used whenever a person did not reach the respective task in his or her test booklet. All consecutive missing values clustered at the end of a test session can be coded mnr, e.g., by the function recodeMbiToMnr from package eatPrep.

mci (missing coding impossible): used whenever a response cannot be coded due to technical problems (e.g., problems in digitalizing the booklets)

mbd (missing by desing): used whenever an item was not administered to a specific person.

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mir (missing invalid response): used whenever a person attempted to answer an item but this answer cannot be classified in the existing coding scheme. Can also be used for multiple choice-items when the respondent selected more than one option.

mbi (missing by intention): used whenever a person was expected to answer an item but did not provide a response.

The default recode values for these missing types are: text volume insufficient = 0, missing not reached = 0, missing coding impossible = NA, missing by design = NA, missing invalid response = 0, missing by intention = 0

Value

A data frame with recoded missings.

Author(s)

Karoline Sachse, Martin Hecht

References

OECD (2005). PISA 2003 Technical Report. OECD Publishing.

commonItems	Identify Common Items for Several Groups	
-------------	--	--

Description

This function identifies sets of items that have been administered to two groups of persons.

Usage

```
commonItems(dat, group.var, na = NA, uncommon = FALSE, simplify = TRUE)
```

Arguments

dat	A data frame with item responses and a grouping variable.
group.var	Name or column number of the group variable in dat
na	A character string indicating which value should be considered as not administered (missing by design)
uncommon	if TRUE a vector of items that have only been administered to one of the two groups is additionally returned.
simplify	if TRUE a character vector is returned (only in case of 2 groups and uncommon=FALSE)

Details

dat must only contain the group variable and the items, if further variables are in dat they are treated as items. If group.var specifies more than two groups, pairwise group comparisons are performed.

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Value

returns a list of all group.var combinations with character vectors of common item names. If uncommon=TRUE a vector of uncommon (unique) items of each group is additionally returned.

The names of list elements are the two group names concatenated by "I".

Author(s)

Martin Hecht

See Also

```
commonItems.percent
```

Examples

```
data(science1)
d <- science1[ , c("version", science1.items)]

# common items are listed for each combination of groups
str(commonItems(dat = d, group.var = "version", na = "mbd"))

# uncommon items are returned as well
str(commonItems(dat = d, group.var = "version", na = "mbd", uncommon = TRUE))</pre>
```

commonItems.percent

Identify Percentage of Common Items for Several Groups

Description

This function calculates the percentage of items that have been administered to two groups of persons.

Usage

```
commonItems.percent(dat, group.var, na = NA, xlsx = NULL)
```

Arguments

dat A data frame with item responses and a grouping variable.

 $\mbox{group.var} \qquad \qquad \mbox{Name or column number of the group variable in dat}$

na A character string indicating which value should be considered as not adminis-

tered (missing by design)

xlsx Optional: Full path of Excel file for results.

Details

dat must only contain the group variable and the items, if further variables are in dat they are treated as items. If group.var specifies more than two groups, pairwise group comparisons are performed.

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Value

returns a data frame with common item percentage(s)

Author(s)

Martin Hecht

See Also

```
commonItems
```

Examples

```
data(science1)
d <- science1[ , c("version", science1.items)]
commonItems.percent(dat = d, group.var = "version", na = "mbd")</pre>
```

crop

Remove Trailing and Leading Characters From Character Strings

Description

Similarly to the function trim from the gdata package, this function can be used to remove trailing and leading spaces from character strings. However, in contrast to trim, any character can be removed by crop.

Usage

```
crop(x, char = "")
```

Arguments

x character string

char character to be removed from beginning and end of x

Author(s)

Martin Hecht, Sebastian Weirich

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fill.na

Replace Missing Values in a Vector

Description

Missing values in a vector are replaced by the last (forward) or next (backward) observed value.

Usage

```
fill.na(vec, backwards = FALSE, na.rm = FALSE)
```

Arguments

vec a vector

backwards if FALSE NAs are replaced by the last observed value, if TRUE NAs are replaced

by the next observed value

na.rm if TRUE NAs at the start and end of vector are removed

Details

In the clinical literature, the procedure of replacing a missing value with the last observed value is known as the "Last Observation Carried Forward" imputation technique. However, there is a large body of literature suggesting that this method may lead to biased estimates of means and covariances and should therefore be avoided for imputation.

Value

A vector with replaced missing values.

Author(s)

Martin Hecht

Examples

```
(vec <- c(NA, 1, NA, NA, 2, NA, 3, NA))
fill.na(vec)
fill.na(vec, backwards = TRUE)</pre>
```

make.dummies

Create Dummy Variables from a Data Frame

Description

Create dummy variables using dummy.code from the psych package. The dummy variables' names can be customized and the variables can be added to the input data frame.

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Usage

```
make.dummies(dat, cols, colname.as.prefix = TRUE, delimiter = ".",
capitalize = FALSE, nchar = NULL, add = TRUE, sort.into.dat = TRUE,
oneToColname = FALSE, zeroToNA = FALSE, factor.indices = FALSE)
```

Arguments

dat A data frame

cols colnames of variables to be dummy coded

colname.as.prefix

Logical: If TRUE the original variable name is added as prefix

delimiter A character string by which the variable name and the level name will be sepa-

rated (only evaluated if colname.as.prefix = TRUE)

capitalize Logical: If TRUE the level names are capitalized

nchar Number of characters the level names should be truncated to add Logical: If TRUE the dummy variables are appended to dat

sort.into.dat Logical: If TRUE (and add = TRUE) the dummy variables are added and sorted

into dat according to their column names

oneToColname Logical: If TRUE, the values of cases with a value of 1 on the dummy variable

are set to the colname of respective column. This changes the column class of

the dummy variable(s) from numeric to character.

zeroToNA Logical: If TRUE, the values of cases with a value of 0 on the dummy variable

are set to NA.

 ${\tt factor.indices} \quad Logical: If {\tt TRUE}, numeric indices of factor levels are used instead of factor level}$

names.

Value

A data frame with dummy variables. Depending on add the returned object contains either the original data frame with the dummy variables appended or only the dummy variables.

Author(s)

Martin Hecht

Examples

```
## Not run:
data(science1)

science1.dum <- make.dummies(science1, c("sex","booklet"))
str(science1.dum[,1:12])

science1.dum <- make.dummies(science1, c("sex","booklet"), nchar = 1)
str(science1.dum[,1:12])

science1.dum <- make.dummies(science1, c("sex","booklet"), delimiter = "_")
str(science1.dum[,1:12])

science1.dum <- make.dummies(science1, c("sex","booklet"), delimiter = "", capitalize = TRUE)
str(science1.dum[,1:12])</pre>
```

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```
science1.dum <- make.dummies(science1, c("sex","booklet"), colname.as.prefix = FALSE)
str(science1.dum[,1:12])
science1.dum <- make.dummies(science1, c("sex","booklet"), sort.into.dat = FALSE)
str(science1.dum[ , (ncol(science1.dum)-9):ncol(science1.dum)])
science1.dum <- make.dummies(science1, c("sex","booklet"), add = FALSE)
str(science1.dum)
science1.dum <- make.dummies(science1, c("sex","booklet"), oneToColname = TRUE, zeroToNA = TRUE)
str(science1.dum[,1:12])
science1.dum <- make.dummies(science1, c("sex","booklet"), factor.indices = TRUE)
str(science1.dum[,1:12])
## End(Not run)</pre>
```

modus

Compute the Mode of a Variable

Description

Calculate the mode (most frequent value) of a variable

Usage

```
modus(x, randTies = FALSE)
```

Arguments

x a vector

randTies If TRUE, in case more than one mode is found, one random value of all modes is

returned.

Details

The modus function is designed to always return only one value for the mode of a variable. If the variable is bimodal or multimodal, the function returns either NA (if randTies = FALSE) or a randomly chosen value of all modes (if randTies = TRUE).

Value

the mode (most frequent value) of the variable

Author(s)

Martin Hecht

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Examples

```
## Not run:
x <- c(1, 1, 2, 2)
modus(x)
modus(x, randTies = TRUE)

x <- c(1, NA, NA)
modus(x)

x <- c("x", "x", "y")
modus(x)

## End(Not run)</pre>
```

 ${\it multiseq}$

multiple sequences

Description

creates a sequence for every unique value in a vector

a vector

Usage

```
multiseq(v)
```

Arguments

V

Value

a vector with multiple sequences

Author(s)

Martin Hecht

Examples

```
v <- c("a", "a", "a", "c", "b", "b", "a") multiseq(v)
```

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reinsort.col	Insert Columns into a Data Frame in a Specific Position	
--------------	---	--

Description

Insert columns into a data frame in specific position

Usage

```
reinsort.col(dat, toreinsort, after)
```

Arguments

dat A data frame

toreinsort Column name(s) or column number(s) of the colums to be reinserted

after Column name or column number after which the colums specified in reinsort

should be reinserted.

Value

A data frame with columns in specified positions.

Author(s)

Martin Hecht

rmNA Remove Columns and Rows with Missing Data	

Description

Remove columns and rows that contain only missing values from a data frame or a matrix

Usage

```
rmNA(dat, remove = TRUE, verbose = FALSE)
```

Arguments

dat A data frame or a matrix

remove if TRUE columns and rows containing only missing values are removed, if FALSE

a list of identified columns and rows is returned

verbose if TRUE the removed columns and rows are printed on the console.

Value

Either a list indicating which columns and which rows in the data contain only missing values or a data frame or matrix in which all columns and rows containing only missing values are removed.

rmNAcols

Author(s)

Martin Hecht

See Also

```
rmNAcols, rmNArows
```

Examples

rmNAcols

Remove Columns with Missing Data

Description

Remove columns containing missing values from a data frame or a matrix

Usage

Arguments

dat A data frame or a matrix

rows rows to include in evaluating the missing values of columns, can be a list of

vectors to specify row subsets

tolerance Number of non-NA cells that are "tolerated", can be a list corresponding to rows

cumulate if TRUE, tolerance is cumulated; if FALSE, exact tolerance is used

remove if TRUE columns and rows are removed, if FALSE identified columns are returned

verbose if TRUE the removed columns are printed on the console

Value

depends on option remove

Author(s)

Martin Hecht

See Also

calls rmNA and rmNArows

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Examples

```
# example matrix
(\mathsf{mat} \mathrel{<\!\!\!\!-} \mathsf{matrix}(\mathsf{c}(1,1,1,1,1,1,1,1,1,1,1,\mathsf{NA},\ 1,1,1,1,\mathsf{NA},\mathsf{NA},\ 1,1,1,\mathsf{NA},\mathsf{NA},\ \mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf{NA},\mathsf
1,1,NA,NA,NA,NA, 1,NA,NA,NA,NA,NA,NA,NA,NA,NA,NA,NA,NA), ncol=7))
# remove column with entirely NA (column 7)
rmNAcols(mat, verbose = TRUE)
# remove column with NA on rows 3, 4, 5 (columns 5, 6, 7)
rmNAcols(mat, c(3,4,5), verbose = TRUE)
rmNAcols(mat, c(-1,-2,-6), verbose = TRUE)
\# tolerance=1 , 1 non-NA is permitted (columns 6 and 7)
rmNAcols(mat, tolerance=1, verbose = TRUE)
# tolerance=6 , 6 non-NA are permitted (all columns are removed)
rmNAcols(mat, tolerance=6, verbose = TRUE)
# do not cumulate / exact tolerance (column 1)
rmNAcols(mat, tolerance=6, cumulate=FALSE, verbose = TRUE)
# two subsets of rows
rmNAcols(mat, rows = list(c(1, 2), c(4, 5)), verbose = TRUE)
# two subsets of rows with different tolerance
rmNAcols(mat, rows = list(1, c(2, 3, 4, 5)), tolerance = list(0, 1), verbose = TRUE)
# identify cols, no deletion
rmNAcols(mat, rows = list(c(1, 2), c(3, 4, 5)), tolerance = list(0, 1), remove = FALSE)
```

 ${\tt rmNArows}$

remove NA rows from data

Description

remove rows that are completely or partially NA from data.frame or matrix

Usage

Arguments

dat	data.frame or matrix
cols	columns to include, can be a list of vectors to specify column subsets
tolerance	number of non-NA cells that are "tolerated", can be a list corresponding to cols
cumulate	if TRUE, tolerance is cumulated; if FALSE, exact tolerance is used
remove	if TRUE, columns and rows are removed; if FALSE, identified rows are returned
verbose	if TRUE removed columns and rows are printed on output window

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Value

depends on option remove

Author(s)

Martin Hecht

See Also

calls rmNA and rmNAcols

Examples

```
# example matrix
(mat <- matrix(c( 1,1,1,1,1, 1,1,1,1,NA, 1,1,1,NA,NA, 1,1,NA,NA,NA,
  1, NA, NA, NA, NA, NA, NA, NA, NA, NA), ncol=5, byrow=TRUE))
# remove row with entirely NA (row 6)
rmNArows(mat, verbose = TRUE)
# remove row with NA on column 3, 4, 5 (rows 4, 5, 6)
rmNArows(mat, c(3,4,5), verbose = TRUE)
rmNArows(mat, c(-1,-2), verbose = TRUE)
# tolerance=1 , 1 non-NA is permitted (rows 5 and 6)
rmNArows(mat, tolerance=1, verbose = TRUE)
# tolerance=5 , 5 non-NA are permitted (all rows are removed)
rmNArows(mat, tolerance=5, verbose = TRUE)
# do not cumulate / exact tolerance (row 1 is removed)
rmNArows(mat, tolerance=5, cumulate=FALSE, verbose = TRUE)
rmNArows(mat, tolerance=5, cumulate=FALSE, remove = FALSE)
# two subsets of columns
rmNArows(mat, cols = list(c(1, 2), c(4, 5)), verbose = TRUE)
# two subsets of columns with different tolerance
rmNArows(mat, cols = list(c(1), c(2, 3, 4, 5)), tolerance = list(0, 1), verbose = TRUE)
# identify rows, no deletion
rmNArows(mat, cols = list(c(1), c(2, 3, 4, 5)), tolerance = list(0, 1), remove = FALSE)
```

set.col.type

Set the Class of Columns in a Data Frame

Description

Convert the Class of Columns to character, numeric, logical, integer or factor

Usage

```
set.col.type(dat, col.type = list("character" = NULL), verbose = FALSE, ...)
```

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Arguments

dat	A data frame
col.type	A named list of column names that are to be converted. The names of the list indicate the class to which the respective column should be converted (character, numeric, numeric.if.possible, logical, integer or factor)
verbose	if TRUE details about converted columns are printed on the console
	Additional arguments to be passed to asNumericIfPossible

Details

use col.type="numeric.if.possible" if conversion to numeric should be tested upfront, see asNumericIfPossible for details

Value

A data frame with column classes changed according to the specifications in col. type

Author(s)

Martin Hecht

See Also

asNumericIfPossible

Examples

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