

# Package ‘Tmisc’

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**Title** Turner Miscellaneous

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**Description** Miscellaneous data and utility functions  
for manipulating data and your R environment.

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## R topics documented:

are_all_equal . . . . .	2
beep . . . . .	3
clean_names . . . . .	4
convert_to_NA . . . . .	4
corner . . . . .	5
counts2fpkm . . . . .	6
datename . . . . .	7
deseqresult2tbl . . . . .	7
dfsigfig . . . . .	8
dokuwiki . . . . .	9
ellipses . . . . .	9
fisherp . . . . .	10
gghues . . . . .	11

gg_na . . . . .	11
jsd . . . . .	12
lmp . . . . .	13
lowestnonzero . . . . .	14
lsa . . . . .	14
lsp . . . . .	15
Mode . . . . .	16
nn . . . . .	17
o . . . . .	17
peek . . . . .	18
propmiss . . . . .	19
quartet . . . . .	19
read.cb . . . . .	20
registration . . . . .	20
remove_empty_cols . . . . .	21
remove_empty_rows . . . . .	22
rownames_to_symprobe . . . . .	22
saveit . . . . .	23
sicb . . . . .	24
strSort . . . . .	24
Tcols . . . . .	25
Thist . . . . .	26
Tmisc . . . . .	26
Tpairs . . . . .	27
unfactor . . . . .	27
unrowname . . . . .	28
%nin% . . . . .	29
<b>Index</b>	<b>30</b>

---

are_all_equal	<i>Are all equal?</i>
---------------	-----------------------

---

### Description

Are all the elements of a numeric vector (approximately) equal?

### Usage

```
are_all_equal(x, na.rm = FALSE)
```

### Arguments

x	A numeric vector.
na.rm	Remove missing values (FALSE by default; NAs in x will return NA).

**Value**

Logical, whether all elements of a numeric vector are equal.

**Author(s)**

Stephen Turner

**Examples**

```
are_all_equal(c(5,5,5))
are_all_equal(c(5,5,5,6))
are_all_equal(c(5,5,5,NA,6))
are_all_equal(c(5,5,5,NA,6), na.rm=TRUE)
5==5.000000001
identical(5, 5.000000001)
are_all_equal(c(5L, 5, 5.000000001))
```

---

beep

*Play a short sound*

---

**Description**

beep plays a short sound which is useful if you want to get notified, for example, when a script has finished. Taken from the beepR package.

**Usage**

```
beep(expr = NULL)
```

**Arguments**

expr            An optional expression to be executed before the sound.

**Details**

If beep is not able to play the sound a warning is issued rather than an error. This is in order to not risk aborting or stopping the process that you wanted to get notified about.

**Examples**

```
## Not run:
# Play a beep sound
beep()

# Update all packages and "ping" when it's ready
update.packages(ask=FALSE); beep()

## End(Not run)
```

---

clean_names	<i>Cleans names of a data.frame.</i>
-------------	--------------------------------------

---

**Description**

Resulting names are unique and consist only of the \_ character, lowercase letters, and numbers.

**Usage**

```
clean_names(x)
```

**Arguments**

x                    the input data.frame.

**Value**

Returns the data.frame with clean names.

**Examples**

```
# not run:
# clean_names(poorly_named_df)

# library(dplyr) ; library(readxl)
# not run:
# readxl("messy_excel_file.xlsx") %>% clean_names()
```

---

convert_to_NA	<i>Convert string values to true NA values.</i>
---------------	---

---

**Description**

Converts instances of user-specified strings into NA. Can operate on either a single vector or an entire data.frame.

**Usage**

```
convert_to_NA(x, strings = c("NA", "#N/A", "N/A", "n/a", "#NAME?", "", " ",
  ".", "-"))
```

**Arguments**

x                    vector or data.frame to operate on.  
strings              character vector of strings to convert.

**Value**

Returns a cleaned object. Can be a vector, data.frame, or tibble::tbl\_df depending on the provided input.

**Examples**

```
convert_to_NA(mtcars, "4") # a silly example;
# mtcars has no string NA values, but this will convert 4s to NA

# a more typical call would be (not run):
# convert_to_NA(my_df, c("NA", "#N/A", "N/A", "n/a", "#NAME?"))
# catches common strings that should be NA

convert_to_NA(letters, c("b", "d"))
```

---

corner

*Print the top left corner of a data frame*

---

**Description**

Prints the first n rows and columns of a data frame or matrix.

**Usage**

```
corner(x, n = 5)
```

**Arguments**

x                    A data.frame.  
n                    The number of rows/columns to print.

**Value**

The corner of the data frame

**Author(s)**

Stephen Turner

**Examples**

```
corner(mtcars)
corner(iris, n=4)
```

---

`counts2fpkm`*Fragments per kilobase per million*

---

**Description**

Takes a count matrix and a vector of gene lengths and returns an optionally log<sub>2</sub>-transformed FPKM matrix. Modified from edgeR.

**Usage**

```
counts2fpkm(x, length, log = FALSE, prior.count = 0.25)
```

**Arguments**

<code>x</code>	a matrix of counts
<code>length</code>	a vector of length <code>nrow(x)</code> giving length in bases
<code>log</code>	logical, if TRUE, then log <sub>2</sub> values are returned.
<code>prior.count</code>	average count to be added to each observation to avoid taking log of zero. Used only if <code>log=TRUE</code> .

**Value**

A matrix of FPKM values.

**Author(s)**

Davis McCarthy  
Gordon Smyth

**Examples**

```
## Not run:  
library(readr)  
library(dplyr)  
countdata <- read_csv("http://files.figshare.com/2439061/GSE37704_featurecounts.csv")  
counts <- countdata %>% select(countdata, starts_with("SRR")) %>% as.matrix  
counts2fpkm(counts, countdata$length)  
  
## End(Not run)
```

---

datename	<i>Filename with date</i>
----------	---------------------------

---

**Description**

Returns string with today's date in YYYY-MM-DD- format concatenated to filename.

**Usage**

```
datename(filename = "filename")
```

**Arguments**

filename      A filename string.

**Value**

String with today's date in YYYY-MM-DD- format concatenated to filename.

**Author(s)**

Stephen Turner

**Examples**

```
datename("myfile.png")
```

---

deseqresult2tbl	<i>Tidy DESeq2 result</i>
-----------------	---------------------------

---

**Description**

Returns a tidy version of a DESeq2 results table.

**Usage**

```
deseqresult2tbl(deseqresult)
```

**Arguments**

deseqresult      Results from running results(dds) on a DESeqDataSet object.

**Value**

a tidy version of the DESeq2 results.

**Author(s)**

Stephen Turner

**Examples**

```
## Not run:  
res <- results(dds)  
res <- deseqresult2tbl  
  
## End(Not run)
```

---

dfsigfig

*Round numeric columns of a data frame*

---

**Description**

Round the numeric columns of a data frame to a specified number of significant digits.

**Usage**

```
dfsigfig(df, n = 3)
```

**Arguments**

df            A data.frame.  
n            The number of significant digits to round off to.

**Value**

A data.frame rounded to n significant digits.

**Author(s)**

Stephen Turner

**Examples**

```
dfsigfig(mtcars,1)
```

---

dokuwiki                      *Create tables in dokuwiki format*

---

### Description

Prints the supplied data frame or matrix using Dokuwiki's table syntax, optionally copying the data to the clipboard (Mac OS X only).

### Usage

```
dokuwiki(x, headersep = "^", sep = "|", clip = TRUE, ...)
```

### Arguments

x	A data.frame.
headersep	The separator used between entries in the header row.
sep	The separator used between entries in all other rows.
clip	Whether or not to write the returned table to the clipboard (currently only supported on Mac OS X).
...	Further arguments passed to <code>write.table</code> .

### Author(s)

Stephen Turner

### Examples

```
dokuwiki(head(iris), clip=FALSE)
dokuwiki(head(mtcars), clip=FALSE, row.names=TRUE)
```

---

ellipses                      *Truncate a data frame with ellipses.*

---

### Description

Prints the specified number of rows of a data frame, followed by a row of ellipses. Useful for piping to `knitr::kable()` for printing a truncated table in a markdown document.

### Usage

```
ellipses(df, n = 5L)
```

**Arguments**

df                    A data.frame.  
n                    The number of rows to show before an ellipses row.

**Value**

A data frame truncated by a row of ellipses.

**Author(s)**

Stephen Turner

**Examples**

```
ellipses(mtcars, 5)
```

---

fisherp

*Fisher's method to combine p-values.*

---

**Description**

Uses Fisher's method to combine p-values from different tests.

**Usage**

```
fisherp(x)
```

**Arguments**

x                    A vector of p-values between 0 and 1.

**Value**

A combined p-value.

**Author(s)**

Stephen Turner

**Examples**

```
fisherp(c(.042, .02, .001, 0.01, .89))
```

---

gghues	<i>Emulate ggplot2 default hues</i>
--------	-------------------------------------

---

**Description**

This will emulate ggplot2's hues, which are equally spaced hues around the color wheel, starting from 15.

**Usage**

```
gghues(n, start = 15)
```

**Arguments**

n	The Numeric; number of hues to generate.
start	Numeric; the place on the color wheel to start. ggplot2 default is 15.

**Value**

A vector of hues

**Author(s)**

Stephen Turner

**Examples**

```
n <- 10
gghues(3)
barplot(rep(1,n), col=gghues(n), names=gghues(n))
barplot(rep(1,n), col=gghues(n, start=15+180), names=gghues(n, start=15+180))
```

---

gg_na	<i>Plot missing data</i>
-------	--------------------------

---

**Description**

Plots missing data as holes on a black canvas.

**Usage**

```
gg_na(df)
```

**Arguments**

df	A data.frame.
----	---------------

**Author(s)**

Stephen Turner

**Examples**

```
# What a mess.
# Feature 10 is missing a lot. Observations 25 and 35 are completely missing.
# Most of features 40-45 are missing, except for the first few observations.
set.seed(2016-07-12)
x <- matrix(1, nrow=50, ncol=50)
x[sample(prod(dim(x)), 100)] <- NA
x <- data.frame(x)
x$X10[sample(length(x$X10), 25)] <- NA
x[c(25, 35), ] <- NA
x[1:40, 40:45] <- NA
gg_na(x)
```

---

*jsd**Jensen-Shannon divergence*

---

**Description**

Calculates a distance matrix from a matrix of probability distributions using Jensen-Shannon divergence. Adapted from <http://enterotype.embl.de/enterotypes.html#dm>.

**Usage**

```
jsd(M, pseudocount = 1e-06, normalizeCounts = FALSE)
```

**Arguments**

M	a probability distribution matrix, e.g., normalized transcript compatibility counts.
pseudocount	a small number to avoid division by zero errors.
normalizeCounts	logical, whether to attempt to normalize by dividing by the column sums. Set to TRUE if this is, e.g., a count matrix.

**Value**

A Jensen-Shannon divergence-based distance matrix.

**Author(s)**

Stephen Turner

**Examples**

```

set.seed(42)
M <- matrix(rpois(100, lambda=100), ncol=5)
colnames(M) <- paste0("sample", 1:5)
rownames(M) <- paste0("gene", 1:20)
Mnorm <- apply(M, 2, function(x) x/sum(x))
Mjsd <- jsd(Mnorm)
# equivalently
Mjsd <- jsd(M, normalizeCounts=TRUE)
Mjsd
plot(hclust(Mjsd))

```

Imp

*Linear model p-value***Description**

Extract F-test p-value from a linear model object. Can also use `broom::glance(fit)`. Originally described at <http://www.gettinggeneticsdone.com/2011/01/rstats-function-for-extracting-f-test-p.html>.

**Usage**

```
Imp(modelobject)
```

**Arguments**

`modelobject`     A model object of class `lm`.

**Value**

The p-value on the f-test of a linear model object testing the null hypothesis that  $R^2=0$ .

**Examples**

```

# simulate some (e.g. SNP genotype) data
set.seed(42)
n=20
d=data.frame(x1=rbinom(n,2,.5), x2=rbinom(n,2,.5))
d=transform(d, y=x1+x2+rnorm(n))
#fit the linear model
fit=lm(y ~ x1 + x2, data=d)
#shows that the F-test is 0.006641
summary(fit)
#can't access that p-value using this
names(summary(fit))
# this doesn't work either
names(fit)

```

```
lmp(fit)
```

---

lowestnonzero	<i>Lowest nonzero values</i>
---------------	------------------------------

---

### Description

Sometimes want to plot p-values (e.g., volcano plot or MA-plot), but if a statistical test returns a zero p-value, this causes problems with visualization on the log scale. This function returns a vector where the zero values are equal to the smallest nonzero value in the vector.

### Usage

```
lowestnonzero(x)
```

### Arguments

x                    A vector of p-values between 0 and 1.

### Value

A vector of p-values where zero values are exchanged for the lowest non-zero p-value in the original vector.

### Author(s)

Stephen Turner

### Examples

```
lowestnonzero(c(.042, .02, 0, .001, 0, .89))
```

---

lsa	<i>Improved list of objects</i>
-----	---------------------------------

---

### Description

Improved list of objects. Sorts by size by default. This was shamelessly stolen from <http://stackoverflow.com/q/1358003/654296>.

### Usage

```
lsa(pos = 1, pattern, order.by = "Size", decreasing = TRUE, head = TRUE,  
n = 10)
```

**Arguments**

pos	numeric. Position in the stack.
pattern	Regex to filter the objects by.
order.by	character. Either 'Type', 'Size', 'PrettySize', 'Rows', or 'Columns'. This will dictate how the output is ordered.
decreasing	logical. Should the output be displayed in decreasing order?
head	logical. Use head on the output?
n	numeric. Number of objects to display is head is TRUE.

**Value**

A data.frame with type, size in bytes, human-readable size, rows, and columns of every object in the environment.

**Author(s)**

Dirk Eddelbuettel, Tony Breyal

**Examples**

```
## Not run:
a <- rnorm(100000)
b <- matrix(1, 1000, 100)
lsa()

## End(Not run)
```

---

lsp

---

*List objects in package*


---

**Description**

Lists functions and how to call them for any package.

**Usage**

```
lsp(package, ...)
```

**Arguments**

package	The name of the package you're examining.
...	further arguments to be passed to lsf.str.

**Value**

A list of functions and how to call them for any package.

**Author(s)**

Stephen Turner

**Examples**

```
## Not run:  
lsp(Tmisc, pattern="un")  
  
## End(Not run)
```

---

Mode

*Mode.*

---

**Description**

Returns the mode of a vector. First in a tie wins (see examples).

**Usage**

```
Mode(x, na.rm = FALSE)
```

**Arguments**

x	A vector.
na.rm	Remove missing values before calculating the mode (FALSE by default). NAs are counted just like any other element. That is, an NA in the vector won't necessarily result in a return NA. See the first example.

**Value**

A combined p-value.

**Author(s)**

Stephen Turner

**Examples**

```
Mode(c(1,2,2,3,3,3, NA))  
Mode(c(1,2,2,3,3,3, NA), na.rm=TRUE)  
Mode(c(1,2,2,3,3,3, NA, NA, NA, NA))  
Mode(c(1,2,2,3,3,3, NA, NA, NA, NA), na.rm=TRUE)  
Mode(c("A", "Z", "Z", "B", "B"))
```

---

nn	<i>Get names and class of all columns in a data frame</i>
----	---

---

**Description**

Get names and class of all columns in a data frame in a friendly format.

**Usage**

```
nn(df)
```

**Arguments**

df                    A data.frame.

**Value**

A data.frame with index and class.

**Author(s)**

Stephen Turner

**Examples**

```
nn(iris)
```

---

o	<i>Open the current working directory on mac</i>
---	--

---

**Description**

Opens the current working directory on mac.

**Usage**

```
o()
```

**Author(s)**

Stephen Turner

**Examples**

```
## Not run:  
o()  
  
## End(Not run)
```

---

peek

*Peek at the top of a text file*

---

**Description**

This returns a character vector which shows the top n lines of a file. "Borrowed" from the rafalib package.

**Usage**

```
peek(x, n = 5)
```

**Arguments**

x	a filename
n	the number of lines to return

**Author(s)**

Michael I. Love

**Examples**

```
## Not run:  
filename <- tempfile()  
x<-matrix(round(rnorm(10^4),2),1000,10)  
colnames(x)=letters[1:10]  
write.csv(x,file=filename,row.names=FALSE)  
peek(filename)  
  
## End(Not run)
```

---

propmiss	<i>Missing stats</i>
----------	----------------------

---

**Description**

Returns the number of missing values, total length, and proportion missing values for each variable in a data.frame

**Usage**

```
propmiss(df)
```

**Arguments**

df                    A data.frame.

**Value**

A data.frame with missingness stats.

**Author(s)**

Stephen Turner

**Examples**

```
propmiss(data.frame(a=1:5, b=c(6,NA,NA,9,10)))
```

---

quartet	<i>Anscombe's Quartet data (tidy)</i>
---------	---------------------------------------

---

**Description**

Tidy version of built-in Anscombe's Quartet data. Four datasets that have nearly identical linear regression properties, yet appear very different when graphed.

**Usage**

```
quartet
```

**Format**

Data frame with columns.

**Source**

Anscombe's Quartet, [http://en.wikipedia.org/wiki/Anscombe%27s\\_quartet](http://en.wikipedia.org/wiki/Anscombe%27s_quartet)

---

read.cb	<i>Read from the clipboard</i>
---------	--------------------------------

---

**Description**

Read tabular data from the clipboard.

**Usage**

```
read.cb(header = TRUE, ...)
```

**Arguments**

header	A logical value indicating whether the file contains the names of the variables as its first line. Overrides the default header=FALSE option in read.table().
...	Further arguments to be passed to read.table

**Value**

A data.frame

**Author(s)**

Stephen Turner

**Examples**

```
## Not run:  
# To read CSV data with a header from the clipboard:  
read.cb(header=TRUE, sep=',')  
  
## End(Not run)
```

---

registration	<i>Get registration link</i>
--------------	------------------------------

---

**Description**

Returns a link to register for a course. This reads a text file that I keep on my website that reveals a URL used to register for a course. I change the URL on my website, and the result of running the function changes. I use this so that I can give instructions needed to set up for a course, which includes instructions to download this package and run this function. This is used to ensure that participants were able to successfully download and install R and the required packages before coming to the course.

**Usage**

```
registration(check = FALSE,  
             myurl = "http://stephenturner.us/files/Tmisc-registration-link.txt")
```

**Arguments**

check	logical; set to TRUE to check the registration link
myurl	the URL to visit to print a registration link

**Value**

A registration link

**Author(s)**

Stephen Turner

**Examples**

```
## Not run:  
registration()  
  
## End(Not run)
```

---

remove_empty_cols	<i>Removes empty columns from a data.frame.</i>
-------------------	---

---

**Description**

Removes all columns from a data.frame that are composed entirely of NA values.

**Usage**

```
remove_empty_cols(x)
```

**Arguments**

x	the input data.frame.
---	-----------------------

**Value**

Returns the data.frame with no empty columns.

**Examples**

```
# called with magrittr pipe %>% :
# library(dplyr)
# not run:
# x %>% remove_empty_cols
```

---

`remove_empty_rows`      *Removes empty rows from a data.frame.*

---

**Description**

Removes all rows from a data.frame that are composed entirely of NA values.

**Usage**

```
remove_empty_rows(x)
```

**Arguments**

`x`                      the input data.frame.

**Value**

Returns the data.frame with no empty rows.

**Examples**

```
# called with magrittr pipe %>% :
# library(dplyr)
# not run:
# x %>% remove_empty_rows
```

---

`rownames_to_symprobe`      *Rownames to symbol-probeID*

---

**Description**

This function takes an `exprs(eset)` matrix where the rownames are probeset IDs and takes an annotated topTable output where you have an ID and Symbol column and outputs a character vector with `symbol_probeid` for each probeid in `rownames(exprs(eset))`. You can use this such that the output on a heatmap contains the gene names concatenated to the probe ID in case you have multiple symbols with the same probeID.

**Usage**

```
rownames_to_symprobe(exprset, tt)
```

**Arguments**

```
exprset      The output of exprs(eset).  
tt           A topTable object.
```

**Value**

Character vector of the gene symbol with the probe ID.

**Author(s)**

Stephen Turner

**Examples**

```
## Not run:  
rownames_to_symprobe(esprs(eset), topTable(fit, number=nrow(fit)))  
  
## End(Not run)
```

---

saveit

*Rename objects while saving.*

---

**Description**

Allows you to rename objects as you save them. See <http://stackoverflow.com/a/21248218/654296>.

**Usage**

```
saveit(..., file = stop("'file' must be specified"))
```

**Arguments**

```
...          Objects to save.  
file         Filename/path where data will be saved.
```

**Author(s)**

Stephen Turner

**Examples**

```
## Not run:  
foo <- 1  
saveit(bar=foo, file="foobar.Rdata")  
  
## End(Not run)
```

---

sicb	<i>Write sessionInfo to the clipboard</i>
------	---

---

**Description**

Writes output of sessionInfo() to the clipboard. Only works on Mac.

**Usage**

```
sicb()
```

**Author(s)**

Stephen Turner

**Examples**

```
## Not run:  
# Write sessionInfo() to the clipboard on mac.  
sicb()  
  
## End(Not run)
```

---

strSort	<i>Sort characters in a string</i>
---------	------------------------------------

---

**Description**

Alphabetically sorts characters in a string. Vectorized over x.

**Usage**

```
strSort(x)
```

**Arguments**

x                    A string to sort.

**Value**

A sorted string.

**Author(s)**

Stephen Turner

**Examples**

```
strSort("cba")
strSort("zyxcCbB105.a")
strSort(c("cba", "zyx"))
strSort(c("cba", NA))
```

---

Tcols

*A palette of 17 diverging colors*

---

**Description**

17 diverging colors created by combining the Set1 and Dark2 palettes from RColorBrewer.

**Usage**

Tcols

**Format**

Vector of 17 diverging colors.

**Source**

R Color brewer: `c(brewer.pal(9, "Set1"), brewer.pal(8, "Dark2"))`.

**Examples**

```
## Not run:
  barplot(rep(1, 17), col=Tcols, axes=F, names=c(rep("Set1", 9), rep("Dark2", 8)), horiz=TRUE, las=2)

## End(Not run)
```

Thist

*Histograms with overlays*

---

**Description**

Plot a histogram with either a normal distribution or density curve overlay.

**Usage**

```
Thist(x, overlay = "normal", col = "gray80", ...)
```

**Arguments**

x	A numeric vector.
overlay	Either "normal" (default) or "density" indicating whether a normal distribution or density curve should be plotted on top of the histogram.
col	Color of the histogram bars.
...	Other arguments to be passed to hist().

**Author(s)**

Stephen Turner

**Examples**

```
set.seed(42)
x <- rnorm(1000, mean=5, sd=2)
Thist(x)
Thist(x, overlay="density")
Thist(x^2)
Thist(x^2, overlay="density", breaks=50, col="lightblue2")
```

---

Tmisc*Tmisc*

---

**Description**

Stephen Turner's miscellaneous functions

**Author(s)**

Stephen Turner

---

Tpairs *Better scatterplot matrices.*

---

### Description

A matrix of scatter plots with rugged histograms, correlations, and significance stars. Much of the functionality borrowed from `PerformanceAnalytics::chart.Correlation()`.

### Usage

```
Tpairs(x, histogram = TRUE, gap = 0, ...)
```

### Arguments

x	A numeric matrix or data.frame.
histogram	Overlay a histogram on the diagonals?
gap	distance between subplots, in margin lines.
...	arguments to be passed to or from other methods.

### Author(s)

Stephen Turner

### Examples

```
Tpairs(iris[-5])
Tpairs(iris[-5], pch=21, bg=Tcols[factor(iris$Species)])
Tpairs(iris[-5], pch=21, bg=gghues(3)[factor(iris$Species)], gap=1)
```

---

unfactor *Unfactor a data.frame*

---

### Description

Did you forget to pass `stringsAsFactors=FALSE`? This converts factor variables to characters in a dataframe.

### Usage

```
unfactor(df)
```

### Arguments

df	The dataframe you wish to change the factors into characters.
----	---

**Value**

A data.frame with factors converted to characters.

**Author(s)**

<https://github.com/Dasonk>

**Examples**

```
df <- data.frame(a = letters[1:5], x = 1:5, y = LETTERS[1:5], stringsAsFactors = TRUE)
str(df)
df <- unfactor(df)
str(df)
```

---

unrowname

*Un-rowname*

---

**Description**

Strip rownames from an object (stolen from plyr).

**Usage**

```
unrowname(x)
```

**Arguments**

x                    A data.frame.

**Value**

A data.frame with rownames removed.

**Author(s)**

Hadley Wickham

**Examples**

```
unrowname(mtcars)
```

---

%nin%                    *x not in y*

---

**Description**

Returns a logical vector of elements of x that are not in y.

**Usage**

x %nin% y

**Arguments**

x                    A "left" vector  
y                    A "right" vector

**Value**

A logical vector of things in x that aren't in y.

**Author(s)**

Stephen Turner

**Examples**

1:10 %nin% seq(from=2, to=10, by=2)

# Index

## \*Topic **NA**

- [%nin%](#), 29
- [deseqresult2tbl](#), 7
- [gg\\_na](#), 11
- [lsa](#), 14
- [nn](#), 17
- [o](#), 17
- [propmiss](#), 19
- [registration](#), 20
- [rownames\\_to\\_symprobe](#), 22
- [saveit](#), 23
- [Thist](#), 26
- [Tpairs](#), 27
- [unfactor](#), 27

## \*Topic **datasets**

- [quartet](#), 19
- [Tcols](#), 25

## \*Topic **keywords**

- [are\\_all\\_equal](#), 2
- [datename](#), 7
- [fisherp](#), 10
- [gghues](#), 11
- [lowestnonzero](#), 14
- [lsp](#), 15
- [Mode](#), 16
- [read.cb](#), 20
- [strSort](#), 24
- [unrowname](#), 28

## \*Topic **sessioninfo**

- [sich](#), 24

- [%nin%](#), 29

- [are\\_all\\_equal](#), 2

- [beep](#), 3

- [clean\\_names](#), 4
- [convert\\_to\\_NA](#), 4
- [corner](#), 5
- [counts2fpkm](#), 6

- [datename](#), 7
- [deseqresult2tbl](#), 7
- [dfsigfig](#), 8
- [dokuwiki](#), 9

- [ellipses](#), 9

- [fisherp](#), 10

- [gg\\_na](#), 11
- [gghues](#), 11

- [jsd](#), 12

- [lmp](#), 13
- [lowestnonzero](#), 14
- [lsa](#), 14
- [lsp](#), 15

- [Mode](#), 16

- [nn](#), 17

- [o](#), 17

- [peek](#), 18
- [propmiss](#), 19

- [quartet](#), 19

- [read.cb](#), 20
- [registration](#), 20
- [remove\\_empty\\_cols](#), 21
- [remove\\_empty\\_rows](#), 22
- [rownames\\_to\\_symprobe](#), 22

- [saveit](#), 23
- [sich](#), 24
- [strSort](#), 24

- [Tcols](#), 25
- [Thist](#), 26

Tmisc, [26](#)

Tmisc-package (Tmisc), [26](#)

Tpairs, [27](#)

unfactor, [27](#)

unrowname, [28](#)