

Package ‘Tmisc’

December 5, 2019

Title Turner Miscellaneous

Version 0.1.22

Maintainer Stephen Turner <vustephen@gmail.com>

Description Miscellaneous utility functions for data manipulation,
data tidying, and working with gene expression data.

URL <https://github.com/stephenturner/Tmisc>,
<http://stephenturner.github.io/Tmisc>

Depends R (>= 3.1.2)

Imports dplyr, tibble, utils, rstudioapi, methods

License GPL-3

LazyData true

RoxygenNote 7.0.2

Suggests ggplot2, reshape2

NeedsCompilation no

Author Stephen Turner [aut, cre] (<<https://orcid.org/0000-0001-9140-9028>>)

Repository CRAN

Date/Publication 2019-12-05 15:30:05 UTC

R topics documented:

addins	2
aliases	3
are_all_equal	4
corner	5
counts2fpkm	6
Cs	7
datasaurus	7
deseqresult2tbl	8
dfsigfig	9
dokuwiki	10

ellipses	10
fisherp	11
gghues	12
gg_na	12
gt2refalt	13
jsd	14
keep_top_n	15
lmp	15
lowestnonzero	16
lsa	17
lsp	18
mat2df	19
Mode	19
nn	20
o	21
peek	21
propmiss	22
quartet	23
read.cb	23
rownames_to_symprobe	24
saveit	25
sicb	25
strSort	26
Tcols	27
Thist	27
Tmisc	28
Tpairs	28
unfactor	29
%like%	30
%nin%	30
%nlike%	31
Index	32

addins

Insert text at current position.

Description

Call these function as an addin to insert desired text at the cursor position. After installing Tmisc, hit the Addins menu, and optionally add a keyboard shortcut, e.g., Command+Shift+I, Alt+-, etc.

aliases

Aliases

Description

Aliases more pleasing to use in a dplyr pipeline:

brackets	'[['
dollar	'\$'
is_in	'%in%'
and	'&'
or	' '
equals	'=='
is_gt	'>'
is_geq	'>='
is_lt	'<'
is_leq	'<='
not	'!'
set_colnames	'colnames<-'
set_rownames	'rownames<-'
set_attributes	'attributes<-'
set_attr	'attr<-'

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))
```

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 log₂-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 ₂ 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)
```

Cs	<i>Character strings from unquoted names</i>
----	--

Description

Makes a vector of character strings from a list of valid names. Taken from Hmisc.

Usage

```
Cs(...)
```

Arguments

... any number of names separated by commas

Value

character string vector

Author(s)

Frank Harrell

Examples

```
Cs(a, cat, dog)
Cs(age, sex, race, bloodpressure, height)
Cs(you, must, quote, "things with spaces", 'or invalid ! @#$ characters')
```

datasaurus	<i>Datasaurus Dozen</i>
------------	-------------------------

Description

The Datasaurus Dozen dataset

Usage

```
datasaurus
```

Format

Data frame with columns.

Source

Justin Matejka, George Fitzmaurice. "Same Stats, Different Graphs: Generating Datasets with Varied Appearance and Identical Statistics through Simulated Annealing." 2017 ACM SIGCHI Conference on Human Factors in Computing Systems. <https://www.autodeskresearch.com/publications/samestats>.

Examples

```
## Not run:
library(dplyr)
datasaurus %>%
  group_by(set) %>%
  summarize(mean(x), mean(y), sd(x), sd(y), cor(x, y))
library(ggplot2)
ggplot(datasaurus, aes(x,y)) +
  geom_point() +
  geom_smooth(method="lm") +
  facet_wrap(~set)

## End(Not run)
```

deseqresult2tbl

Tidy DESeq2 result

Description

Returns a tidy version of a DESeq2 results table.

Usage

```
deseqresult2tbl(deseqresult, colname = "ensgene")
```

Arguments

`deseqresult` Results from running `results(dds)` on a `DESeqDataSet` object.
`colname` The name of the column you want to use for what DESeq puts in the row name.

Value

a tidy version of the DESeq2 results.

Author(s)

Stephen Turner

Examples

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

dfsigfig	<i>Round numeric columns of a data frame</i>
----------	--

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

```
## Not run:  
dfsigfig(mtcars,1)  
  
## End(Not run)
```

 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	<i>Fisher's method to combine p-values.</i>
---------	---

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 *Emulate ggplot2 default hues*

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 *Plot missing data*

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)
```

`gt2refalt`*Two-letter genotype from VCF GT*

Description

Get a two-letter genotype from a VCF GT field. Current implementation is quick and dirty, and only accepts 0/0, 0/1, or 1/1. Any other input to gt will return a missing value.

Usage

```
gt2refalt(gt, ref, alt)
```

Arguments

<code>gt</code>	The genotype field (must be 0/0, 0/1, or 1/1).
<code>ref</code>	The reference allele.
<code>alt</code>	The alternate allele.

Value

Returnvalue

Examples

```
gt2refalt(gt="0/0", ref="R", alt="A")
gt2refalt(gt="0/1", ref="R", alt="A")
gt2refalt(gt="1/1", ref="R", alt="A")
gt2refalt(gt="0/2", ref="R", alt="A")
gt2refalt(gt="./.", ref="R", alt="A")
```

`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))
```

keep_top_n	<i>Keep rows from top groups of a column</i>
------------	--

Description

Extract rows belonging to top n groups of a certain column

Usage

```
keep_top_n(.data, col, n = 10)
```

Arguments

.data	The data frame to operate on
col	A formula indicating the column to group over
n	The number of top groups to extract

Value

A data frame containing only rows belonging to the top n groups of the column

Author(s)

Jeroen Janssens

Examples

```
## Not run:
# All the cars
(nrow(mtcars))
# Only those in the top 2 groups based on the # carbs
nrow(keep_top_n(mtcars, ~carb, n=2))

## End(Not run)
```

lmp	<i>Linear model p-value</i>
-----	-----------------------------

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

```
lmp(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

Lowest nonzero values

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

Improved list of objects

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 <code>lsf.str</code> .

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)
```

mat2df	<i>Matrix to pairwise data frame</i>
--------	--------------------------------------

Description

Turns a distance matrix into a data frame of pairwise distances.

Usage

```
mat2df(M)
```

Arguments

M a square pairwise matrix (e.g., of distances).

Value

Data frame with pairwise distances.

Author(s)

Stephen Turner

Examples

```
set.seed(42)
M <- matrix(rnorm(25), nrow=5)
M
mat2df(M)
M <- matrix(rnorm(25), nrow=5, dimnames=list(letters[1:5], letters[1:5]))
M
mat2df(M)
```

Mode	<i>Mode.</i>
------	--------------

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

Get names and class of all columns in a data frame

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 *Open the current working directory on mac*

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

Missing stats

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

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 <code>read.table()</code> .
...	Further arguments to be passed to <code>read.table</code>

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)
```

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

<code>exprset</code>	The output of <code>exprs(eset)</code> .
<code>tt</code>	A <code>topTable</code> 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	<i>Rename objects while saving.</i>
--------	-------------------------------------

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*Sort characters in a string*

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("zyxcCb105.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 <code>hist()</code> .

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

```
## Not run:
df <- data.frame(a = letters[1:5], x = 1:5, y = LETTERS[1:5], stringsAsFactors = TRUE)
str(df)
df <- unfactor(df)
str(df)

## End(Not run)
```

%like%	<i>x like y</i>
--------	-----------------

Description

Returns a logical vector of elements of *x* matching the regex *y*.

Usage

```
x %like% pattern
```

Arguments

<i>x</i>	a vector (numeric, character, factor)
<i>pattern</i>	a vector (numeric, character, factor), matching the mode of <i>x</i>

Value

A logical vector with length equal to *x* of things in *x* that are like *y*.

See Also

[%like%](#), [%nlike%](#), [%nin%](#),

Examples

```
(Name <- c("Mary", "George", "Martha"))
Name %in% c("Mary")
Name %like% "^Mar"
Name %nin% c("George")
Name %nlike% "^Mar"
```

%nin%	<i>x not in y</i>
-------	-------------------

Description

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

Usage

```
x %nin% table
```

Arguments

<i>x</i>	a vector (numeric, character, factor)
<i>table</i>	a vector (numeric, character, factor), matching the mode of <i>x</i>

Value

A logical vector with length equal to `x` of things in `x` that aren't in `y`.

See Also

[%like%](#), [%nlike%](#), [%nin%](#),

Examples

```
1:10 %nin% seq(from=2, to=10, by=2)
c("a", "b", "c") %nin% c("a", "b")
letters[letters %nin% unlist(strsplit("pack my box with five dozen liquor jugs", ""))]
```

<code>%nlike%</code>	<i>x not like y</i>
----------------------	---------------------

Description

Returns a logical vector of elements of `x` not matching the regex `y`.

Usage

```
x %nlike% pattern
```

Arguments

<code>x</code>	a vector (numeric, character, factor)
<code>pattern</code>	a vector (numeric, character, factor), matching the mode of <code>x</code>

Value

A logical vector with length equal to `x` of things in `x` that aren't like `y`.

See Also

[%like%](#), [%nlike%](#), [%nin%](#),

Examples

```
(Name <- c("Mary", "George", "Martha"))
Name %in% c("Mary")
Name %like% "^Mar"
Name %nin% c("George")
Name %nlike% "^Mar"
```

Index

*Topic **NA**

- deseqresult2tbl, 8
- gg_na, 12
- lsa, 17
- nn, 20
- o, 21
- propmiss, 22
- rownames_to_symprobe, 24
- saveit, 25
- Thist, 27
- Tpairs, 28
- unfactor, 29

*Topic **datasets**

- datasaurus, 7
- quartet, 23
- Tcols, 27

*Topic **keywords**

- are_all_equal, 4
- fisherp, 11
- gghues, 12
- lowestnonzero, 16
- lsp, 18
- Mode, 19
- read.cb, 23
- strSort, 26

*Topic **sessioninfo**

- sicb, 25

%like%, 30, 30, 31

%nin%, 30, 30, 31

%nlike%, 30, 31, 31

addins, 2

aliases, 3

and (aliases), 3

are_all_equal, 4

brackets (aliases), 3

corner, 5

counts2fpkm, 6

Cs, 7

datasaurus, 7

deseqresult2tbl, 8

dfsigfig, 9

dokuwiki, 10

dollar (aliases), 3

ellipses, 10

equals (aliases), 3

fisherp, 11

gg_na, 12

gghues, 12

gt2refalt, 13

insertEqual (addins), 2

insertInAddin (addins), 2

is_geq (aliases), 3

is_gt (aliases), 3

is_in (aliases), 3

is_leq (aliases), 3

is_lt (aliases), 3

jsd, 14

keep_top_n, 15

lmp, 15

lowestnonzero, 16

lsa, 17

lsp, 18

mat2df, 19

Mode, 19

nn, 20

not (aliases), 3

o, 21

or (aliases), 3

peek, [21](#)
propmiss, [22](#)

quartet, [23](#)

read.cb, [23](#)
rownames_to_symprobe, [24](#)

saveit, [25](#)
set_attr (aliases), [3](#)
set_attributes (aliases), [3](#)
set_class (aliases), [3](#)
set_colnames (aliases), [3](#)
set_rownames (aliases), [3](#)
sicb, [25](#)
strSort, [26](#)

Tcols, [27](#)
Thist, [27](#)
Tmisc, [28](#)
Tpairs, [28](#)

unfactor, [29](#)