Package 'wildcard'

October 12, 2022

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Title Templates for Data Frames
Version 1.1.0
Date 2017-09-16
Description Generate data frames from templates.
License GPL (>= 3)
Depends R (>= $3.0.0$)
Imports magrittr, stringi
Suggests knitr, rmarkdown, testthat
<pre>URL https://github.com/wlandau/wildcard</pre>
BugReports https://github.com/wlandau/wildcard/issues
Encoding UTF-8
RoxygenNote 6.0.1
VignetteBuilder knitr
NeedsCompilation no
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Repository CRAN
Date/Publication 2017-09-16 11:49:05 UTC
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wildcard-package

A templating mechanism for data frames

Description

A templating mechanism for data frames

Author(s)

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References

https://github.com/wlandau/wildcard

Examples

```
myths <- data.frame(</pre>
  myth = c('Bigfoot', 'UFO', 'Loch Ness Monster'),
  claim = c('various', 'day', 'day'),
  note = c('various', 'pictures', 'reported day'))
wildcard(myths, wildcard = 'day', values = c('today', 'yesterday'))
wildcard(myths, wildcard = 'day', values = c('today', 'yesterday'),
  expand = FALSE)
locations <- data.frame(</pre>
  myth = c('Bigfoot', 'UFO', 'Loch Ness Monster'),
  origin = 'where')
rules <- list(
  where = c('North America', 'various', 'Scotland'),
  UFO = c('spaceship', 'saucer'))
wildcard(locations, rules = rules, expand = c(FALSE, TRUE))
numbers <- data.frame(x = 4, y = 3, z = 4444, w = 4.434)
wildcard(numbers, wildcard = 4, values = 7)
df <- data.frame(</pre>
  ID = c('24601', 'Javert', 'Fantine'),
  fate = c('fulfillment', 'confusion', 'misfortune'))
expandrows(df, n = 2, type = 'each')
expandrows(df, n = 2, type = 'times')
```

expandrows

Function expand

Description

Expand the rows of a data frame Copied and modified from remakeGenerator::expand() under GPL>=3: https://github.com/wlandau/remakeGenerator

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Usage

```
expandrows(df, n = 2, type = c("each", "times"))
```

Arguments

df data frame

n number of duplicates per row

type character scalar. If 'each', rows will be duplicated in place. If 'times', the

data frame itself will be repeated n times.

See Also

wildcard]

Examples

```
df <- data.frame(
   ID = c('24601', 'Javert', 'Fantine'),
   fate = c('fulfillment', 'confusion', 'misfortune'))
expandrows(df, n = 2, type = 'each')
expandrows(df, n = 2, type = 'times')</pre>
```

nofactors

Function nofactors

Description

Turn all the factors of a data frame into characters.

Usage

```
nofactors(df)
```

Arguments

df data frame

See Also

wildcard

Examples

```
class(iris$Species)
str(iris)
out <- nofactors(iris)
class(out$Species)
str(out)</pre>
```

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Function wildcard

Description

Main function of the package. Evaluate a wildcard to fill in or expand a data frame. Copied and modified from remakeGenerator::evaluate() under GPL-3: https://github.com/wlandau/remakeGenerator

Usage

```
wildcard(df, rules = NULL, wildcard = NULL, values = NULL,
expand = TRUE, include = NULL, exclude = NULL)
```

Arguments

4 t	data	fromo
df	aata	frame

rules list with names a wildcards and elements as vectors of values to substitute in

place of the wildcards.

values vector of values to substitute in place of a wildcard

expand logical, whether to expand the rows of the data frame to substitute each value for

each wildcard in turn. If FALSE, no new rows will be added to df when the values are substituted in place of wildcards. Can be a vector of length length(rules)

if using the rules argument.

include character vector of columns of df to be included in the wildcard evaluation. The

values will replace the wildcards in these columns but not in any of the other colums. All columns are included by default. You may use include or exclude

(or neither), but not both.

exclude character vector of columns of df to be EXCLUDED from the wildcard eval-

uation. The values will NOT replace the wildcards in any of these columns, but wildcard evaluation will occur in all the other columns. By default, no columns are excluded (all columns are used for wildcard evaluation). You may

use include or exclude (or neither), but not both.

Examples

```
myths <- data.frame(
  myth = c('Bigfoot', 'UFO', 'Loch Ness Monster'),
  claim = c('various', 'day', 'day'),
  note = c('various', 'pictures', 'reported day'))
wildcard(myths, wildcard = 'day', values = c('today', 'yesterday'))
wildcard(myths, wildcard = 'day', values = c('today', 'yesterday'),
  expand = FALSE)
locations <- data.frame(
  myth = c('Bigfoot', 'UFO', 'Loch Ness Monster'),</pre>
```

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```
origin = 'where')
rules <- list(</pre>
  where = c('North America', 'various', 'Scotland'),
  UFO = c('spaceship', 'saucer'))
wildcard(locations, rules = rules, expand = c(FALSE, TRUE))
numbers <- data.frame(x = 4, y = 3, z = 4444, w = 4.434)
wildcard(numbers, wildcard = 4, values = 7)
# Inclusion and exclusion
wildcard(myths, wildcard = "day", values = c("today", "yesterday"),
  include = "claim")
wildcard(myths, wildcard = "day", values = c("today", "yesterday"),
  exclude = c("claim", "note"))
# Wildcards should not also be replacement values.
# Otherwise, the output will be strange
# and will depend on the order of the wildcards.
## Not run:
df \leftarrow data.frame(x = "a", y = "b")
rules <- list(a = letters[1:3], b = LETTERS[1:3])</pre>
wildcard(df, rules = rules)
## End(Not run)
```

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