Package: piamutils (via r-universe)

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Type Package

Title Utilities for the piam-verse

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Description This package contains utilities and helpers needed in various piam libraries.
License LGPL-3
<pre>URL https://github.com/pik-piam/piamutils</pre>
Imports magclass, pkgload, quitte
Suggests testthat
Encoding UTF-8
RoxygenNote 7.3.2
Repository https://pik-piam.r-universe.dev
RemoteUrl https://github.com/pik-piam/piamutils
RemoteRef HEAD
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deletePlus	Delete "+" in Variable Names.	Optionally Save in File with Suffix
	"_withoutPlus"	

Description

The function can take a multiple of input formats. It replaces "|+|", "|++|", "|+++|", ... by "|" in variable names and in this "deletes" the "plus-notation".

Usage

```
deletePlus(mif, writemif = FALSE)
```

Arguments

mif A path to a mif-file (might be created by confGDX2MIF), a magpie object

containing reporting, a quitte object, or a character vector or factor of variable

names.

writemif A single truth value. Only used when mif is a file path. Should the new mif

with the adjusted names be saved? If yes the new name will have the suffix

"_withoutPlus.mif".

Value

If mif is a file path and writemif is FALSE, a MAgPIE object. If mif is not a file path the result is the object mif with replaced variable names.

Examples

```
deletePlus(c(
   "ab|cd", # "ab|cd"
   "de|+|fgh", # "de|fgh"
   "i|j|++|k|1|++++|mno|p", # "i|j|k|1|mno|p"
   "++|q+|+r|+p+|u+v|+", # "++|q+|+r|+p+|u+v|+"
   "w|+|+|x")) # "w|x"
```

getSystemFile

Find the path to R System Files for a given R library

Description

A wrapper around system.file to make sure that the correct paths are returned when working with devtools::load_all() during development.

Usage

```
getSystemFile(..., package = "base", mustWork = FALSE)
```

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Arguments

• • •	character vectors, specifying subdirectory and file(s) within some package
package	a character string with the name of a single package
mustWork	if TRUE, an error is given if there are no matching files

Description

Modify Variable Names

Usage

```
modifyVariableNames(x, modify, writeMifSuffix = NULL, ...)
```

Arguments

x A path to a mif-file (might be created by confGDX2MIF), a magpie object

containing reporting, a quitte object, or a character vector or factor of variable

names.

modify A function that modifies a character vector.

writeMifSuffix NULL or a suffix for the file name if the result should be written as a mif-file.

... Further arguments for the modify function.

Value

If x is a file path and writeMifSuffix is NULL, a MAgPIE object. If x is not a file path the result is the object x with replaced variable names.

niceround	niceround returns human-readable string for big and small numbers Show everything before the dot and at least 'digits' significant digits For a data.frame, convert all numeric columns

Description

niceround returns human-readable string for big and small numbers Show everything before the dot and at least 'digits' significant digits For a data.frame, convert all numeric columns

Usage

```
niceround(x, digits = 3)
```

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Arguments

X	either a vector or list of numbers, or a dateframe
digits	number of significant digits that are definitely kept

substitutePlaceholder Substitute Placeholders in Variable Names.

Description

Substitute Placeholders in Variable Names.

Usage

```
substitutePlaceholder(x, writeMifSuffix = NULL, substitutions = c(. = "$dot$"))
```

Arguments

A path to a mif-file (might be created by confGDX2MIF), a quitte object, or a character vector or factor of variable names.
 writeMifSuffix
 NULL or a suffix for the filename if the result should be written as a mif-file.
 substitutions
 A named character vector of placeholders with replacements as names.

Value

If x is not a file path the result is the object x with replaced variable names.

Examples

```
substitutePlaceholder(c(
   "3$dot$5", # "3.5"
   "3$dot5", # "3$dot5"
   "3.5", # "3.5"
   "$dot$dot$dot$dot$dot$")) # ".dot.dot."
```

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