Package 'toolbox'

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argNames

Get the names of the arguments to a function

Description

Get the names of the arguments to a function

Usage

```
argNames(x)
```

Arguments

Х

A function or string naming a function.

Value

A vector of the names of the arguments to a function.

Examples

```
argNames("readLines")
```

argumentNamedList

Create a named list of length 1 using a name stored in a variable as the name.

Description

Create a named list of length 1 using a name stored in a variable as the name.

Usage

```
argumentNamedList(name, x)
```

Arguments

name The name for the item in the list.

x The item to put in the list.

Value

A named list.

castDateString 3

Examples

```
argumentNamedList("test_name", 1)
```

castDateString

Format a date string as "from a SQL database to a format compatible with a HTML date input value.

Description

Format a date string as " from a SQL database to a format compatible with a HTML date input value.

Usage

```
castDateString(x)
```

Arguments

Χ

A string.

Value

A string, formatted YYYY-MM-DD.

Examples

```
castDateString(Sys.time())
```

 ${\tt castLogical}$

Convert strings to logical.

Description

Convert strings to logical.

Usage

```
castLogical(x)
```

Arguments

Х

A string.

Value

A string, converted to logical.

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Examples

```
castLogical("1")
```

castNumeric

Convert strings to numeric if possible, otherwise remains as is.

Description

Convert strings to numeric if possible, otherwise remains as is.

Usage

```
castNumeric(x)
```

Arguments

X

A string.

Value

A string, converted to numeric if possible.

Examples

```
castNumeric("100")
```

combineCols

Combine columns of a list/data frame into a list by row

Description

Combine columns of a list/data frame into a list by row

Usage

```
combineCols(x, cols = NULL, by_name = FALSE, parallel = FALSE, cores = 1)
```

Arguments

cols An optional vector of column positions or names to combine together. If passing

column names, set by_name to TRUE. The order of items in cols determines the

order of the combined result.

by_name Boolean, if TRUE, it quotes the items in cols to properly index the list by name

 $(x[[1]] vs x[["col_a"]]).$

parallel Boolean, if TRUE, attempts to use mclapply.

cores An integer, the number of cores to use if parallel is TRUE.

consolidateList 5

Value

A list of the values in each column combined together for each row.

Examples

```
combineCols(list("x" = c(1, 2, 3), "y" = c("a", "b", "c")))
```

consolidateList

Group items of a list by name

Description

Group items of a list by name

Usage

```
consolidateList(x)
```

Arguments

Х

A named list, likely with names repeating for different positions.

Value

A list with items consolidated by name.

Examples

```
consolidateList(list("col1" = "Test", "col2" = "Hello", "col1" = "Repeated Name"))
```

do.call2

Filters the argument list to match the arguments in what and then calls do.call.

Description

Filters the argument list to match the arguments in what and then calls do.call.

Usage

```
do.call2(what, args, quote = FALSE, envir = parent.frame())
```

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Arguments

what See do.call.

args Argument list, gets filtered to match arguments of what. See do.call.

quote See do.call. envir See do.call.

Value

See do.call.

See Also

do.call

Examples

```
do.call2(intersect, list(x = c(1, 2, 3), y = c(2)))
```

doubleQuoteText

Add double quotes to strings.

Description

Add double quotes to strings.

Usage

```
doubleQuoteText(
   x,
   char_only = TRUE,
   excluded_chars = c("NULL"),
   null_or_na_as_NULL = TRUE
)
```

Arguments

x A string.

char_only TRUE/FALSE, if TRUE, adds quotes only if is.character(x) is TRUE. excluded_chars A character vector, will not add quotes if a value is in excluded_chars. $null_or_na_as_NULL$

TRUE/FALSE, if TRUE, NULL and NA values are replaced with the string "NULL".

Value

A string, with double quotes added.

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Examples

```
doubleQuoteText("Sample quotes.")
```

isNULLorNA

Checks if x is NULL or NA

Description

Checks if x is NULL or NA

Usage

isNULLorNA(x)

Arguments

Χ

A object.

Value

TRUE/FALSE.

Examples

isNULLorNA(NULL)

jsonStr

Format data as a JSON object (like this: "x": "120").

Description

Format data as a JSON object (like this: "x": "120").

Usage

```
jsonStr(name, val)
```

Arguments

name A string, the name of the JSON entry

val A string, the value to associate with the JSON entry.

Value

A string, data formatted as a JSON object.

Examples

```
jsonStr(name = "var1", val = "Blue")
```

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Extract the values from each entry in a list of vectors at a specific index

Description

Extract the values from each entry in a list of vectors at a specific index

Usage

```
listExtract(x, pos)
```

Arguments

x A list, each item of the list should have equal length.

pos A integer, the position to extract from each entry in the list.

Value

A list.

Examples

```
listExtract(list(col1 = c(1, 2, 3, 4, 5), col2 = c("a", "b", "c", "d", "e")), 3)
```

 ${\tt namesToString}$

Pastes the names of a object into a string, optionally quoting the names.

Description

Pastes the names of a object into a string, optionally quoting the names.

Usage

```
namesToString(x, collapse = ",", quote = FALSE)
```

Arguments

x A named object (vector, list, data.frame)collapse A string to separate the collapsed names.

quote TRUE/FALSE, if TRUE, adds quotes to the names.

Value

A string.

pasteCols 9

Examples

```
namesToString(c("test" = 1, "this" = 2))
```

pasteCols

Paste together columns of a list/data frame

Description

Paste together columns of a list/data frame

Usage

```
pasteCols(
   x,
   sep = " ",
   collapse = NULL,
   use_paste0 = FALSE,
   cols = NULL,
   by_name = FALSE
)
```

Arguments

X	A list or data frame.

sep A character sting to separate the terms.

collapse An optional character string to separate the results.
use_paste0 Boolean, if TRUE, will call paste0 instead of paste.

cols An optional vector of column positions or names to paste together. If passing

column names, set by_name to TRUE. The order of items in cols determines the

order of the paste result.

by_name Boolean, if TRUE, it quotes the items in cols to properly index the list by name

 $(x[[1]] vs x[["col_a"]]).$

Value

A string with the values in each column pasted together.

Examples

```
pasteCols(list("x" = c(1, 2, 3), "y" = c("a", "b", "c")))
```

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pastePaths

Paste parts of file paths/urls separated with single forward-slashes

Description

Paste parts of file paths/urls separated with single forward-slashes

Usage

```
pastePaths(...)
```

Arguments

.. Text strings to combine into a file path

Value

A string.

Examples

```
pastePaths("/home/", "/files")
```

quoteText

Add single quotes to strings, useful for converting R strings into SQL formatted strings.

Description

Add single quotes to strings, useful for converting R strings into SQL formatted strings.

Usage

```
quoteText(
    x,
    char_only = TRUE,
    excluded_chars = c("NULL"),
    null_or_na_as_NULL = TRUE
)
```

Arguments

```
A string.
```

 $\label{eq:char_nonly} TRUE/FALSE, if TRUE, adds quotes only if is.character(x) is TRUE. \\ excluded_chars & A character vector, will not add quotes if a value is in excluded_chars. \\ null_or_na_as_NULL$

TRUE/FALSE, if TRUE, NULL and NA values are replaced with the string "NULL".

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Value

A string, with single quotes added to match PostgreSQL string formatting.

Examples

```
quoteText("Sample quotes.")
```

sampleStr

Generates (pseudo)random strings of the specified char length

Description

Generates (pseudo)random strings of the specified char length

Usage

```
sampleStr(n_char, sample_chars = c(letters, LETTERS, 0:9))
```

Arguments

n_char A integer, the number of chars to include in the output string.

sample_chars A vector of characters to sample from. Includes the lowercase and uppercase

English alphabet and 0-9 by default.

Value

A string.

Examples

sampleStr(10)

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