

Package: roomba (via r-universe)

October 3, 2024

Type Package

Title Tidy up nested list hairballs

Version 0.1.0

Description This is a package to transform large, multi-nested lists into a more user-friendly format. The initial focus is on making processing of return values from ``jsonlite::fromJSON()`` queries more seamless, but ideally this package should be useful for deeply-nested lists from an array of sources.

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Depends R (>= 3.0)

Imports assertthat, dplyr, magrittr, purrr

Suggests ggplot2, jsonlite, knitr, rmarkdown, testthat, shiny

VignetteBuilder knitr

Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 6.0.1.9000

URL <https://github.com/ropenscilabs/roomba>

BugReports <https://github.com/ropenscilabs/roomba/issues>

Repository <https://staffanbetner.r-universe.dev>

RemoteUrl <https://github.com/estawitz/roomba>

RemoteRef HEAD

RemoteSha 95be18c10e18558467b22e0675bb98480a264219

Contents

roomba-package	2
dfs_idx	2
list_names	3

reddit	3
replace_null	4
roomba	4
shiny_roomba	5
simple	5
twitter_data	6
vimeo	6

Index	7
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roomba-package	<i>roomba package</i>
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Description

Package: roomba
Type: Package

Details

Collection of functions to do deal with deeply nested data

dfs_idx	<i>Perform a recursive depth first search of a function</i>
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Description

Perform a recursive depth first search of a function

Usage

```
dfs_idx(.x, .f)
```

Arguments

`.x` A list or atomic vector.

`.f` A function, formula, or atomic vector.

If a **function**, it is used as is.

If a **formula**, e.g. `~ .x + 2`, it is converted to a function. There are three ways to refer to the arguments:

- For a single argument function, use `.`
- For a two argument function, use `.x` and `.y`

- For more arguments, use `..1`, `..2`, `..3` etc

This syntax allows you to create very compact anonymous functions.

If **character vector**, **numeric vector**, or **list**, it is converted to an extractor function. Character vectors index by name and numeric vectors index by position; use a list to index by position and name at different levels. Within a list, wrap strings in `get-attr()` to extract named attributes. If a component is not present, the value of `.default` will be returned.

list_names	<i>List all names in a list</i>
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Description

List all names in a list

Usage

```
list_names(x)
```

Arguments

x	list to use
---	-------------

reddit	<i>Example data from reddit</i>
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Description

Example data from reddit

Usage

```
reddit
```

Format

An object of class `list` of length 2.

Source

<https://www.reddit.com/dev/api/>

replace_null	<i>Replace NULLs</i>
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Description

Replace all the empty values in a list

Usage

```
replace_null(x, replacement = NA)
```

Arguments

x	list to use
replacement	Replacement value for missing values

Examples

```
list(a = NULL, b = 1, c = list(foo = NULL, bar = NULL)) %>% replace_null()
```

roomba	<i>Roomba</i>
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Description

Tidy your nested list

Usage

```
roomba(inp, cols = NULL, default = NA, keep = all)
```

Arguments

inp	List to tidy
cols	Columns to keep
default	Replacement for NULL values. Defaults to NA.
keep	Should all or any data be kept?

Examples

```
simple %>% roomba(cols = c("name", "goodstuff"), keep = any)
simple %>% roomba(cols = c("name", "goodstuff"), keep = any)
```

`shiny_roomba`*Run the roomba app*

Description

Run the roomba app

Usage

```
shiny_roomba(browse = TRUE)
```

Arguments

`browse` Logical. Use browser for running Shiny app.

Examples

```
## Not run:  
if(require(shiny)){  
  shiny_roomba()  
}  
  
## End(Not run)
```

`simple`*Example data with simple nested list*

Description

Example data with simple nested list

Usage

```
simple
```

Format

An object of class character of length 1.

twitter_data	<i>Example Twitter data</i>
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Description

Example data from Twitter API

Usage

```
twitter_data
```

Format

An object of class list of length 20.

Details

```
twitter_data[[1]][["id"]]  
[[1]: R:[1 ["id"]; R:
```

Source

<https://developer.twitter.com/en/docs>

vimeo	<i>Example data from vimeo</i>
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Description

Example data from vimeo

Usage

```
vimeo
```

Format

An object of class response of length 10.

Source

<https://developer.vimeo.com/>

Index

* datasets

- reddit, 3
- simple, 5
- twitter_data, 6
- vimeo, 6

dfs_idx, 2

list_names, 3

reddit, 3

replace_null, 4

roomba, 4

roomba-package, 2

shiny_roomba, 5

simple, 5

twitter_data, 6

vimeo, 6