

Package ‘rjstat’

July 23, 2025

Title Handle 'JSON-stat' Format in R

Version 0.4.3

Author Aaron Schumacher, Håkon Malmedal, Måns Magnusson

Maintainer Aaron Schumacher <ajschumacher@gmail.com>

Description Handle 'JSON-stat' format (<<https://json-stat.org>>) in R.
Not all features are supported, especially the extensive metadata features of 'JSON-stat'.

License MIT + file LICENSE

Encoding UTF-8

URL <https://github.com/ajschumacher/rjstat>

BugReports <https://github.com/ajschumacher/rjstat/issues>

Imports jsonlite (>= 0.9.8), checkmate (>= 1.7.0)

Suggests testthat (>= 1.0.0), reshape (>= 0.7)

RoxygenNote 7.2.3

NeedsCompilation no

Repository CRAN

Date/Publication 2023-09-05 09:20:02 UTC

Contents

as.json	2
as.jsonstat	2
fromJSONstat	3
id	4
rjstat	4
status	4
toJSONstat	5

Index	6
--------------	----------

as.json	Convert to jsonlite json object
---------	---------------------------------

Description

Convert to jsonlite json object

Usage

```
as.json(x, ...)
```

Arguments

x	an object to coerce to a json object.
...	additional arguments to be passed to or from methods.

Details

Currently only methods for jsonstat objects are implemented.

as.jsonstat	Create a JSON-stat object
-------------	---------------------------

Description

Create a JSON-stat object

Usage

```
as.jsonstat(x)

is.jsonstat(x)

is.jsonstat_dataset(x)

is.jsonstat_collection(x)

is.jsonstat_dimension(x)
```

Arguments

x	a JSON-stat string, URL or file
---	---------------------------------

Value

a JSON-stat object with subclass dataset, dimension or collection

Examples

```

file_path <- system.file("extdata", "oecd.json", package = "rjstat")
x <- as.jsonstat(file_path)
print(x)
is.jsonstat(x)
is.jsonstat_dataset(x)
is.jsonstat_dimension(x)

```

fromJSONstat	<i>Convert JSON-stat format to data frame(s)</i>
--------------	--

Description

This function takes a JSON-stat format response and returns a data frame or a list of data frames, with columns for each dimension and one value column.

Usage

```
fromJSONstat(x, naming = "label", use_factors = FALSE, silent = FALSE)
```

Arguments

x	JSON-stat format response, or path or URL to such a response
naming	whether to use (longer) labels or (shorter) ids
use_factors	whether dimension categories should be factors or character objects
silent	suppress warnings

Value

For responses with class dataset: A data frame. For responses with class collection: An unnamed list of one or more lists or data frames. For responses with class bundle: A named list of one or more data frames.

Examples

```

## Not run:
oecd.canada.url <- "https://json-stat.org/samples/oecd-canada.json"
results <- fromJSONstat(oecd.canada.url)
names(results)

## End(Not run)

```

id	<i>id accessors of jsonstat objects</i>
----	---

Description

Access and change ids of jsonstat objects.

Usage

```
id(x)
```

```
id(x) <- value
```

Arguments

x	a jsonstat_dataset object
value	a character vector of up to the same length as id(x).

rjstat	<i>Read and write JSON-stat data sets</i>
--------	---

Description

JSON-stat is a JSON format for data dissemination. The **rjstat** package converts data frames to and from this format. The extensive metadata features of JSON-stat are not supported.

status	<i>status accessors of jsonstat objects</i>
--------	---

Description

Access and change status of jsonstat objects.

Usage

```
status(x)
```

```
status(x) <- value
```

Arguments

x	a jsonstat_dataset object
value	a character vector of up to the same length as as.vector(x) or a named list with index as vector names.

toJSONstat	<i>Convert data frame(s) to JSON-stat format</i>
------------	--

Description

This function takes a data frame or list of data frames and returns a string representation in JSON-stat format. The input data frame(s) must be in maximally long tidy format: with only one value column and all other columns representing dimensions.

Usage

```
toJSONstat(x, value = "value", ...)
```

Arguments

x	a data frame or list of data frames
value	name of value column
...	arguments passed on to toJSON

Value

For a data frame: A JSON-stat format response with class `dataset`. For a list of data frames: A JSON-stat format response with class `collection`.

Examples

```
library(reshape)
irises <- melt(cbind(iris, Specimen=rep(1:50, 3)),
              id.vars=c("Species", "Specimen"))
irisJSONstat <- toJSONstat(list(iris=irises))
cat(substr(irisJSONstat, 1, 76))

# Add indentation whitespace
toJSONstat(as.data.frame(Titanic), value = "Freq", pretty = TRUE)
```

Index

`as.json`, [2](#)

`as.jsonstat`, [2](#)

`fromJSONstat`, [3](#)

`id`, [4](#)

`id<- (id)`, [4](#)

`is.jsonstat (as.jsonstat)`, [2](#)

`is.jsonstat_collection (as.jsonstat)`, [2](#)

`is.jsonstat_dataset (as.jsonstat)`, [2](#)

`is.jsonstat_dimension (as.jsonstat)`, [2](#)

`rjstat`, [4](#)

`rjstat-package (rjstat)`, [4](#)

`status`, [4](#)

`status<- (status)`, [4](#)

`toJSON`, [5](#)

`toJSONstat`, [5](#)