

# Package ‘rjstat’

March 17, 2022

**Title** Handle 'JSON-stat' Format in R

**Version** 0.4.2

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**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** 7.1.2

**NeedsCompilation** no

**Repository** CRAN

**Date/Publication** 2022-03-17 19:50:02 UTC

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as.json *Convert to jsonlite json object*

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**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.

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as.jsonstat *Create a JSON-stat object*

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**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)
```

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

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id	<i>id accessors of jsonstat objects</i>
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### 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).

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

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status	<i>status accessors of jsonstat objects</i>
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### 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.

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toJSONstat	<i>Convert data frame(s) to JSON-stat format</i>
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### 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 <a href="#">toJSON</a>

### 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)
```

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