

Package ‘jsonstat’

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Type Package

Title Interface to 'JSON-stat'

Version 0.0.2

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Description Interface to 'JSON-stat' <<https://json-stat.org/>>,
a simple lightweight 'JSON' format for data dissemination.

URL <https://github.com/zedoul/jsonstat>

BugReports <https://github.com/zedoul/jsonstat/issues>

Depends R (>= 3.3.0)

Imports cli, dplyr, jsonlite, rlang

Suggests knitr, testthat

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Encoding UTF-8

LazyData true

RoxygenNote 6.0.1

VignetteBuilder knitr

NeedsCompilation no

Repository CRAN

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as.collection	<i>Convert data set into JSON-stat collection</i>
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Description

Convert data set into JSON-stat collection

Usage

```
as.collection(..., label = "", href = "", src = NULL, extension = NULL,
updated = NULL)
```

Arguments

...	a named list, the function creates a collection based on user input like the same way as 'list'.
label	label of dataset
href	href of dataset, "" by default
src	source of dataset, NULL by default
extension	user data, NULL by default
updated	a timestamp for data, NULL by default

as.dataset	<i>Convert data frame into JSON-stat dataset</i>
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Description

Convert data frame into JSON-stat dataset

Usage

```
as.dataset(x, .plan, label, href = "", src = NULL, extension = NULL,
updated = NULL)
```

Arguments

x	data frame
.plan	compress plan
label	label of dataset
href	href of dataset, "" by default
src	source of dataset, NULL by default
extension	user data, NULL by default
updated	a timestamp for data, NULL by default

autounbox	<i>Unbox list object</i>
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Description

This function marks atomic vectors in given list as a singleton, so that it will not turn into an 'array' when encoded into JSON.

Usage

```
autounbox(.list)
```

Arguments

.list	a list contains atomic vectors
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compress_plan	<i>compress plan</i>
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Description

This function constructs a plan to compress data frame into jsonstat

Usage

```
compress_plan(dim_name, role_name = c("time", "geo", "metric",  
  "classification", "value"), label = NULL)
```

Arguments

dim_name	name of dimension
role_name	role of dimension
label	label of dimension

Value

jsonstat.compress.plan object

Examples

```
library(jsonstat)

.plan <- compress_plan("place.of.birth", "geo", "Place of Birth")
```

dimension	<i>Create dimension object</i>
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Description

Create dimension object

Usage

```
dimension(.plan, dim_name, role_name, label)
```

Arguments

.plan	jsonstat.compress.plan object
dim_name	name of dimension
role_name	role of dimension
label	label of dimension

Value

jsonstat.compress.plan object

dimension.jsonstat.compress.plan
<i>dimension</i>

Description

This function adds another dimension into compress plan

Usage

```
## S3 method for class 'jsonstat.compress.plan'
dimension(.plan, dim_name,
  role_name = c("time", "geo", "metric", "classification", "value"),
  label = NULL)
```

Arguments

.plan	jsonstat.compress.plan object
dim_name	name of dimension
role_name	role of dimension
label	label of dimension

Value

jsonstat.compress.plan object

Examples

```
library(jsonstat)

.plan <- compress_plan("place.of.birth", "geo", "Place of Birth")
.plan <- dimension(.plan, "age.group", "classification", "Age Group")
```

galicia	<i>Galicia data</i>
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Description

Galicia data

Usage

galicia

Format

a data frame

Examples

galicia

jsonstat	<i>jsonstat: R package for JSON-stat</i>
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Description

jsonstat provides useful functions to work with JSON-stat format.

Author(s)

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See Also

Useful links:

- <https://github.com/zedoul/jsonstat>
- Report bugs at <https://github.com/zedoul/jsonstat/issues>

toJSON	<i>Convert JSON-stat object into JSON-stat JSON string</i>
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Description

Convert JSON-stat object into JSON-stat JSON string

Usage

```
toJSON(x, auto_unbox)
```

Arguments

x	JSON-stat object
auto_unbox	this flag marks atomic vectors in given list as a singleton, so it will not turn into an 'array' when encoded into JSON. FALSE by default.

Value

JSON output

`toJSON.jsonstat.collection`*Convert JSON-stat collection into JSON*

Description

Convert JSON-stat collection into JSON

Usage

```
## S3 method for class 'jsonstat.collection'  
toJSON(x, auto_unbox = F)
```

Arguments

<code>x</code>	JSON-stat collection
<code>auto_unbox</code>	this flag marks atomic vectors in given list as a singleton, so it will not turn into an 'array' when encoded into JSON. FALSE by default.

Value

JSON output

Examples

```
library(jsonstat)  
library(dplyr)  
  
.plan <- compress_plan("place.of.birth", "geo", "Place of Birth") %>%  
  dimension("age.group", "classification", "Age Group") %>%  
  dimension("gender", "classification", "Gender") %>%  
  dimension("year", "time", "Year") %>%  
  dimension("province.of.residence", "geo", "Province of Residence") %>%  
  dimension("concept", "metric", "Concept") %>%  
  dimension("value", "value", "value")  
  
.dataset <- as.dataset(galicia, .plan,  
  label = paste("Population by province of residence,",  
    "place of birth, age, gender and year",  
    "in Galicia"),  
  href = "https://github.com/zedoul/jsonstat")  
  
.collection <- as.collection(.dataset, label = "Comparison",  
  href = "https://github.com/zedoul/jsonstat")  
  
.jsonstat <- toJSON(.collection)
```

toJSON.jsonstat.dataset

Convert JSON-stat dataset into JSON

Description

Convert JSON-stat dataset into JSON

Usage

```
## S3 method for class 'jsonstat.dataset'
toJSON(x, auto_unbox = F)
```

Arguments

x	JSON-stat dataset
auto_unbox	this flag marks atomic vectors in given list as a singleton, so it will not turn into an 'array' when encoded into JSON. FALSE by default.

Value

JSON output

Examples

```
library(jsonstat)
library(dplyr)

.plan <- compress_plan("place.of.birth", "geo", "Place of Birth") %>%
  dimension("age.group", "classification", "Age Group") %>%
  dimension("gender", "classification", "Gender") %>%
  dimension("year", "time", "Year") %>%
  dimension("province.of.residence", "geo", "Province of Residence") %>%
  dimension("concept", "metric", "Concept") %>%
  dimension("value", "value", "value")

.dataset <- as.dataset(galicia, .plan,
  label = paste("Population by province of residence,",
    "place of birth, age, gender and year",
    "in Galicia"),
  href = "https://github.com/zedoul/jsonstat")

.jsonstat <- toJSON(.dataset)
```

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