Package ‘sotkanet’

October 14, 2022

Type Package
Title Sotkanet Open Data Access and Analysis
Version 0.9.79
Date 2022-02-01
Encoding UTF-8
Description Access statistical information on welfare and health in Finland
License BSD_2_clause + file LICENSE
URL https://ropengov.github.io/sotkanet/
BugReports https://github.com/ropengov/sotkanet/issues
Depends R (>= 3.2)
Imports httr, curl, jsonlite
Suggests devtools, ggplot2, knitr, testthat (>= 3.0.0), roxygen2,
markdown, magrittr, kableExtra, rmarkdown, covr, ggrepel
VignetteBuilder knitr
NeedsCompilation no
Repository CRAN
RoxygenNote 7.1.2
X-schema.org-isPartOf http://ropengov.org/
X-schema.org-keywords ropengov
Config/testthat/edition 3
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Date/Publication 2022-02-01 18:50:02 UTC
R topics documented:

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sotkanet-package

Description

The ‘sotkanet’ R package aims to make retrieval of sotkanet indicator data easy using R. Sotkanet.fi Statistics and Indicator Bank is maintained by The Finnish Institute for Health and Welfare and it contains data on population welfare and health from 1990 onwards.

sotkanet functions

The main ways to interact with Sotkanet REST API are with the following functions: GetDataSotkanet for downloading data from specific indicator(s), SotkanetIndicators for retrieving metadata on all or user specified indicators as a well defined list and SotkanetIndicatorMetadata as a specialized case returning an untruncated ("raw") output as default.

Attribution and licensing

For citing this package, see citation("sotkanet")
For terms of use of Sotkanet data, see THL Sotkanet REST API documentation (in Finnish).
A short and unofficial English summary of the Finnish Terms of use is as follows: The end user of this package should note that

- metadata related to regional classifications and indicators is released under a Creative Commons Attribution 4.0 license (CC BY 4.0),
- statistical data and indicators produced by THL are likewise released under a CC BY 4.0 license,
- statistical data and indicators produced by other parties than THL should be only used in accordance with a separate agreement.

CC BY 4.0 terms state that when using data accessed through the sotkanet API you should always give appropriate credit to Sotkanet as a data source and include a link to sotkanet website: https://sotkanet.fi. In the case of individual indicators, the producer of the indicator should also be attributed separately.

This information is subject to change and the developers of this package cannot guarantee that information stated here is correct. This unofficial English translation related to data terms of use is provided solely as a convenience to the end user. The user of this package should always check the full text of Sotkanet terms of use from the original source (see the link above to Sotkanet REST API documentation).
Basic information about the package

Package: sotkanet
Type: Package
Version: See sessionInfo() or DESCRIPTION file
Date: 2013-2022
License: BSD 2-clause License
LazyLoad: yes

Author(s)
Leo Lahti (<leo.lahti@iki.fi>), Einari Happonen, Juuso Parkkinen Joona Lehtomaki, Vesa Saaristo and Pyry Kantanen

References
See citation("sotkanet")

See Also
Useful links:
  - https://ropengov.github.io/sotkanet/
  - Report bugs at https://github.com/ropengov/sotkanet/issues

Examples
library(sotkanet)

---

GetDataSotkanet

Retrieve Sotkanet Data

Description
Retrieve selected data and combine into a single table.

Usage
GetDataSotkanet(
  indicators = NULL,
  years = 1991:2015,
  genders = c("total"),
  regions = NULL,
  region.category = NULL,
  user.agent = NULL
)

Arguments

- **indicators**: Dataset identifier(s)
- **years**: vector of years (e.g., 2010, 2012, ...)
- **genders**: vector of genders ('male', 'female', 'total')
- **regions**: filter by selected regions only (default: all regions)
- **region.category**: filter by one or more of the following 14 valid regions categories (default: all categories)
  - "ALUEHALLINTOVIRASTO"
  - "ELY-KESKUS"
  - "ERVA"
  - "EURALUEET" (Eurozone)
  - "EUROOPPA" (Europe)
  - "HYVINVOINTIALUE" (welfare country)
  - "KUNTA" (municipality)
  - "MAA" (country)
  - "MAAKUNTA" (region)
  - "NUTS1"
  - "POHJOISMAAT" (Nordic countries)
  - "SAIRAANHOITOPIIRI" (hospital district)
  - "SEUTUKUNTA"
  - "SUURALUE"
- **user.agent**: "User agent" defined by the user. Default is NULL which will then use the package identifier "rOpenGov/sotkanet"

Details

THL's open data license and limitation of liability

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**Value**

- data.frame

**Author(s)**

Maintainer: Leo Lahti <leo.lahti@iki.fi>, Pyry Kantanen
SotkanetIndicatorMetadata

References

See citation("sotkanet")

See Also

For more information about dataset structure, see THL webpage at https://yhteistyotilat.fi/wiki08/pages/viewpage.action?pageId=27557907

THL open data license website: https://yhteistyotilat.fi/wiki08/x/AAadAg

Examples

```r
## Not run: dat <- GetDataSotkanet(indicators = 165)
```

SotkanetIndicatorMetadata

Sotkanet Indicator Metadata

Description

Retrieves sotkanet indicator metadata.

Usage

SotkanetIndicatorMetadata(id = NULL, type = "raw", user.agent = NULL)

Arguments

- **id**: Indicator id
- **type**: Parameter passed onto SotkanetIndicators. Default is 'raw' for the whole output but 'table' is also supported
- **user.agent**: "User agent" defined by the user. Default is NULL which will use the default package identifier "rOpenGov/sotkanet"

Details

Data is fetched from

https://sotkanet.fi/rest/1.1/indicators/<id>

Value

sotkanet indicator metadata as a list object

Author(s)

Maintainer: Pyry Kantanen
### SotkanetIndicators

**Description**

Retrieve Sotkanet indicator metadata

**Usage**

```r
SotkanetIndicators(id = NULL, type = "table", user.agent = NULL)
```

**Arguments**

- `id`  
  Dataset identifier. Default is NULL returning all
- `type`  
  type output format, either 'table' (default) or 'raw'. Default produces a truncated table with strictly defined columns that are useful in other functions. 'Raw' produces the full output which might be useful for exploratory purposes.
- `user.agent`  
  "User agent" defined by the user. Default is NULL which will then use the package identifier "rOpenGov/sotkanet"

**Details**

Data is fetched from [https://sotkanet.fi/rest/1.1/indicators](https://sotkanet.fi/rest/1.1/indicators).

**Value**

```
data.frame (type = "table") or a list (type = "raw")
```

**Author(s)**

Leo Lahti <leo.lahti@iki.fi>, Pyry Kantanen

**References**

See citation("sotkanet")
SotkanetRegions

Examples

```r
## Not run:
sotkanet.indicators <- SotkanetIndicators(type = "table")

## End(Not run)
```

---

SotkanetRegions  Sotkanet Regions

### Description

Retrieves sotkanet regions data.

### Usage

```r
SotkanetRegions(type = "table", user.agent = NULL)
```

### Arguments

- **type**: type output format, either 'table' (default) or 'raw'. Default produces a truncated table with strictly defined columns that are useful in other functions. 'Raw' produces the full output which might be useful for exploratory purposes.
- **user.agent**: "User agent" defined by the user. Default is NULL which will then use the package identifier "rOpenGov/sotkanet".

### Details

Data is fetched from [https://sotkanet.fi/rest/1.1/regions](https://sotkanet.fi/rest/1.1/regions).

### Value

data.frame

### Author(s)

Maintainer: Leo Lahti <leo.lahti@iki.fi>

### References

See citation("sotkanet")

### Examples

```r
## Not run:
sotkanet.regions <- SotkanetRegions(type = "table")

## End(Not run)
```
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