

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
from the Sotkanet open data portal <<https://sotkanet.fi/sotkanet/fi/index>>.

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

Author Leo Lahti [aut, cre] (<<https://orcid.org/0000-0001-5537-637X>>),
Einari Happonen [aut],
Joona Lehtomaki [ctb],
Juuso Parkkinen [ctb],
Vesa Saaristo [ctb],
Pyry Kantanen [aut] (<<https://orcid.org/0000-0003-2853-2765>>)

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

Date/Publication 2022-02-01 18:50:02 UTC

R topics documented:

sotkanet-package	2
GetDataSotkanet	3
SotkanetIndicatorMetadata	5
SotkanetIndicators	6
SotkanetRegions	7

Index	8
--------------	----------

sotkanet-package	<i>sotkanet: Sotkanet Open Data Access and Analysis</i>
------------------	---

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 Joonas 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 c(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) <ul style="list-style-type: none"> • "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

License

The open data provided by National Institute for Health and Welfare is licensed under CC BY 4.0. This license defines how open data can be utilized. The licensing is based on a decision made by the Director General.

Limitation of Liability

National Institute for Health and Welfare shall not be liable for any loss, legal proceedings, claims, proceedings, demands, costs or damages regardless of their cause or form, which can be directly or indirectly connected to open data or use of open data published by National Institute for Health and Welfare.

Value

data.frame

Author(s)

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

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

```
## 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

References

See citation("sotkanet")

Examples

```
## Not run:  
x <- SotkanetIndicatorMetadata(10013)  
  
## End(Not run)
```

SotkanetIndicators *Sotkanet Indicators*

Description

Retrieve Sotkanet indicator metadata

Usage

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

Arguments

<code>id</code>	Dataset identifier. Default is NULL returning all
<code>type</code>	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.
<code>user.agent</code>	"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>.

Value

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

Author(s)

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

References

See citation("sotkanet")

Examples

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

## End(Not run)
```

SotkanetRegions	<i>Sotkanet Regions</i>
-----------------	-------------------------

Description

Retrieves sotkanet regions data.

Usage

```
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>.

Value

data.frame

Author(s)

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

References

See citation("sotkanet")

Examples

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

## End(Not run)
```

Index

* **utilities**

- GetDataSotkanet, [3](#)
 - SotkanetIndicatorMetadata, [5](#)
 - SotkanetIndicators, [6](#)
 - SotkanetRegions, [7](#)
 - _PACKAGE (sotkanet-package), [2](#)
- GetDataSotkanet, [2](#), [3](#)
- sotkanet (sotkanet-package), [2](#)
- sotkanet-package, [2](#)
- SotkanetIndicatorMetadata, [2](#), [5](#)
- SotkanetIndicators, [2](#), [5](#), [6](#)
- SotkanetRegions, [7](#)