

# Package ‘sorvi’

May 30, 2022

**Type** Package

**Title** Functions for Finnish Open Data

**Version** 0.8.20

**Date** 2022-05-27

**MailingList** rOpenGov <ropengov-forum@googlegroups.com>

**Description** Misc support functions for rOpenGov and open data downloads.

**License** BSD\_2\_clause + file LICENSE

**VignetteBuilder** knitr

**BugReports** <https://github.com/ropengov/sorvi/issues>

**URL** <https://github.com/ropengov/sorvi>,  
<https://CRAN.R-project.org/package=sorvi>,  
<https://ropengov.github.io/sorvi/>

**Depends** R (>= 3.3.0)

**Imports** dlstats, dplyr, ggplot2, gh, tidyr, purrr, rlang, utils,  
rvest, xml2, lubridate, checkmate

**Suggests** gridExtra, RColorBrewer, knitr, rmarkdown, Cairo

**Encoding** UTF-8

**RoxygenNote** 7.2.0

**NeedsCompilation** no

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**Repository** CRAN

**Date/Publication** 2022-05-30 10:00:02 UTC

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sorvi-package	<i>Algorithmic Tools for Open Data in Finland</i>
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### Description

The sorvi package hosts various functions that are mainly helpful in rOpenGov package maintenance, package authoring and drawing graphs for presentations. Additionally it has some functions that do not (yet) have their own package but are useful in some contexts.

### Details

Package:	sorvi
Type:	Package
Version:	0.8.18
Date:	2010-2022
License:	BSD 2-clause
LazyLoad:	yes

### Author(s)

Leo Lahti, Juuso Parkkinen, Jussi Paananen, Joonas Lehtomaki, Einari Happonen, Juuso Haapanen, and Pyry Kantanen <louhos@googlegroups.com>

### References

See citation("sorvi") <https://github.com/rOpenGov/sorvi>

### Examples

```
library(sorvi)
```

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cran_downloads	<i>Get CRAN download statistics</i>
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## Description

Produces a tibble or a visualization of package download statistics.

## Usage

```
cran_downloads(  
  pkgs = "all",  
  output = "tibble",  
  sum = "by_month",  
  plot.scale = 11,  
  use.cache = TRUE  
)
```

## Arguments

pkgs	Package name(s). Default is "all", which prints statistics for all rOpenGov packages. You can also input 1 or more package names as a vector.
output	"tibble" (default) or "plot". With sum "by_month" and "by_year" "plot" outputs a line chart, with "total" it outputs a bar chart.
sum	"by_month" (default), "by_year" or "total"
plot.scale	integer, default is 11. Smaller numbers decrease the size of plot elements, larger numbers make them larger.
use.cache	Cache downloaded statistics. Default is TRUE

## Details

This function is intended for easy retrieval and visualization of rOpenGov package download statistics from CRAN. It is an evolution of an R script by antagomir. As such it retains some features that were present in the original R script and were deemed useful for rOpenGov's internal use. This function may or may not be useful in other instances.

## Value

tibble or a ggplot2 line chart or a bar chart

## Author(s)

Leo Lahti, Pyry Kantanen <pyry.kantanen@gmail.com>

**Examples**

```
## Not run:
df <- cran_downloads(pkgs = "eurostat", sum = "total", use.cache = FALSE)
kable(df)

## Compare two packages
p1 <- cran_downloads(pkgs = "eurostat", sum = "by_year", output = "plot")
p2 <- cran_downloads(pkgs = "osmar", sum = "by_year", output = "plot")
gridExtra::grid.arrange(p1, p2, nrow = 2)

## End(Not run)
```

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get\_ifpi\_charts

*Get IFPI Finland music consumption statistics*


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**Description**

Download chart position data from ifpi.fi

**Usage**

```
get_ifpi_charts(channel = "radio", year = NA, week = NA)
```

**Arguments**

channel	Options: "radio", "albumit", "singlet", "fyysiset-albumit"
year	year as numeric. Default is NA, returning charts from current year. Charts are available from 2014 onwards.
week	week as numeric. Default is NA, returning most last possible charts. Week cannot be the current week. Please note that number of weeks differ between years. For simplicity's sake valid weeks are set to be between 1 and 53. Use e.g. 'lubridate::isoweek' to check how many weeks a given year has.

**Details**

Web scraping function that is inspired by Sauravkaushik8 Kaushik's blog post "Beginner's Guide on Web Scraping in R" on analyticsvidhya.com. Downloads chart data from Musiikkituottajat - IFPI Finland ry website. Please note that this function works only with IFPI Finland website!

The output has the following columns:

- rank: Rank on chart
- artist: Artist name
- song\_title: Song title
- rank\_last\_week: Rank on chart on the previous week. RE if the song has re-entered the chart
- chart\_woc: Weeks on chart
- week: Week number of observation
- year: Year of observation

**Value**

tibble

**Author(s)**

Pyry Kantanen <pyry.kantanen@gmail.com>

**See Also**

Original tutorial in <https://www.analyticsvidhya.com/blog/2017/03/beginners-guide-on-web-scraping-in-r-u>

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gh_issue_stats	<i>GitHub issues statistics</i>
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**Description**

Get statistics about GitHub issues from GitHub API.

**Usage**

```
gh_issue_stats(  
  owner = "ropengov",  
  repo = "geofi",  
  issue.type = NA,  
  time.from = NA,  
  time.to = NA  
)
```

**Arguments**

owner	Repository owner / organization. Default is "ropengov"
repo	Repository name. Default is "geofi"
issue.type	Type of issues printed: "issue", "PR" or NA printing all (default).
time.from	Start date in ISO 8601 format: YYYY-MM-DDTHH:MM:SSZ. Default is "2010-09-01T00:00:00Z".
time.to	End date in ISO 8601 format: YYYY-MM-DDTHH:MM:SSZ. Default is Sys.time().

**Details**

This function is intended for easy information retrieval about rOpenGov package issues and pull requests. More specifically, this function returns a tibble containing information on issue id, title, status (open or closed), number of comments, who opened it, when it was created, what was the openers status (rOpenGov organization member, package contributor or a regular user who opened e.g. a bug issue) and what is the type of the issue.

GitHub Issues API handles Pull Requests and Issues similarly and therefore this function returns both types by default. Different types of issues can be filtered by using the issue.type parameter.

Kudos for this function go to Jennifer Bryan. The changes made here are mostly related to adding additional fields (opener\_type, issue\_type) to the output tibble and writing a function around these original contributions. The scope of this function is to mainly help rOpenGov team analyze the type of user feedback we get via GitHub issues and therefore the scope of this function is very limited.

**Value**

tibble

**Author(s)**

Original scripts by Jennifer Bryan (jennybc), function by Pyry Kantanen <pyry.kantanen@gmail.com>

**See Also**

GitHub Issues API documentation: <https://docs.github.com/en/rest/reference/issues>

Original "analyze GitHub stuff with R" repository: <https://github.com/jennybc/analyze-github-stuff-with-r>

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load_sorvi_data	<i>Supporting Data</i>
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**Description**

Load custom data sets.

**Usage**

```
load_sorvi_data(data.id, verbose = TRUE)
```

**Arguments**

data.id	data ID to download (see details)
verbose	verbose

**Details**

The following data sets are available:

- translation\_provinces Translation of Finnish province (maakunta) names (Finnish, English).

**Value**

Data set. The format depends on the data.

**Author(s)**

Leo Lahti <leo.lahti@iki.fi>

*load\_sorvi\_data*

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### **References**

See citation("sorvi")

### **Examples**

```
translations <- load_sorvi_data("translation_provinces")
```

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