

Package ‘dataserieS’

June 13, 2026

Type Package

Title Switzerland's Data Series in One Place

Version 1.0.0

Description Download and import open Swiss economic time series from 'dataserieS.org' <<https://dataserieS.org>>, a comprehensive and up-to-date collection of public data from Switzerland. Series are retrieved through the public 'dataserieS.org' API and imported as a 'data.frame' or 'ts' object.

License GPL-3

URL <https://dataserieS.org>, <https://github.com/cynkra/dataserieS>

BugReports <https://github.com/cynkra/dataserieS/issues>

Imports jsonlite, stats, utils

Suggests curl, testthat (>= 3.0.0)

Encoding UTF-8

RoxygenNote 7.3.3

Config/testthat/edition 3

NeedsCompilation no

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Repository CRAN

Date/Publication 2026-06-13 20:30:02 UTC

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cache_ls	<i>List or clear the in-memory cache</i>
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Description

Everything downloaded from dataserries.org is cached in memory for the lifetime of the R session. `cache_ls()` lists the cached objects (keyed by request URL); `cache_rm()` empties the cache, which forces the next call to download fresh data.

Usage

```
cache_ls()
```

```
cache_rm()
```

Value

`cache_ls()` returns a character vector of cache keys; `cache_rm()` is called for its side effect and returns NULL invisibly.

Examples

```
## Not run:  
ds_catalog()  
cache_ls()  
cache_rm()  
  
## End(Not run)
```

ds	<i>Download time series from dataserries.org</i>
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Description

`ds()` downloads open Swiss economic time series from dataserries.org.

Usage

```
ds(dataset, ..., from = NULL, to = NULL, class = c("data.frame", "ts"))
```

Arguments

dataset	a single dataset id, as listed by ds_catalog() .
...	dimension filters, given as named arguments where each name is a dimension of dataset and each value is one or more codes, e.g. <code>type = "real"</code> or <code>structure = c("gdp", "gva")</code> . A single named list may be passed instead, which is convenient programmatically (e.g. from the output of ds_search()). See ds_meta() for the available dimensions and codes.
from, to	optional date bounds (a Date or an ISO "YYYY-MM-DD" string) that restrict the returned range, inclusive.
class	class of the return value: "data.frame" (the default, one row per observation in long format) or "ts". For "ts" the selected series are laid out as columns, one per cell. (To obtain an xts object, wrap the result: <code>xts::as.xts(ds(..., class = "ts"))</code> .)

Details

Data on [dataseries.org](#) is organized into **datasets**. A dataset is a family of related series and is, in most cases, a multi-dimensional *cube*: a single time series is one cell of the cube, addressed by the dataset plus one code per dimension. Pass those codes as **named arguments** (the names are the dimension names, see [ds_meta\(\)](#)):

```
ds("ch_seco_gdp", type = "real", structure = "gdp", seas_adj = "csa")
```

Dimension arguments are optional. Omit them and you get the whole dataset (all series, in long format). A few datasets are a single series and take no dimensions at all (e.g. `ds("ch_kof_barometer")`). Filtering happens on the server, so selecting one series does not download the whole cube.

Downloads are **cached in memory** for the session. Run [cache_rm\(\)](#) to force a fresh download.

Value

A data.frame or ts/mts object, or NULL if the selection is empty.

See Also

[ds_catalog\(\)](#) for the list of datasets and [ds_meta\(\)](#) for a dataset's dimensions.

Examples

```
## Not run:
# whole dataset (long data.frame)
ds("ch_fso_cpi")

# one series, by dimension code
ds("ch_fso_cpi", item = "100_100")

# several series, restricted to a date range
ds("ch_fso_cpi", item = c("100_100", "100_1"), from = "2020-01-01")
```

```
# as a ts object
ds("ch_seco_gdp", type = "real", structure = "gdp", seas_adj = "csa",
  class = "ts")

## End(Not run)
```

ds_catalog	<i>Catalog of available datasets</i>
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Description

Lists every dataset available on dataserries.org, one row per dataset. Use the id column with `ds()` to download data and with `ds_meta()` to inspect a dataset's dimensions.

Usage

```
ds_catalog()
```

Value

A data.frame with one row per dataset and the columns id, title, concept, topic, source, license, frequency, start, end and n_series.

Examples

```
## Not run:
cat <- ds_catalog()
head(cat)

# search the catalog
cat[grepl("price", cat$title, ignore.case = TRUE), c("id", "title")]

## End(Not run)
```

ds_meta	<i>Metadata for one dataset</i>
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Description

Returns the full metadata for a single dataset: its dimensions, the codes (levels) available within each dimension, labels, source, license and date range. Use this to discover which dimension codes to pass to `ds()`.

Usage

```
ds_meta(dataset)
```

Arguments

dataset a single dataset id, as listed by `ds_catalog()`.

Value

A named list (the parsed metadata). Notable elements are `dim_order` (the dataset's dimensions) and `dimensions` (each dimension's levels, keyed by code, with a label).

Examples

```
## Not run:
m <- ds_meta("ch_seco_gdp")
m$dim_order                    # "type", "structure", "seas_adj"
names(m$dimensions$type$levels) # the codes you can pass as type = ...

## End(Not run)
```

ds_search

Search for series across all datasets

Description

Returns a flat, searchable table of the individual series available across every dataset on dataseries.org — one row per series. This is the finest-grained way to discover what exists: grep it, or pass a pattern to filter. The dataset, dim and code columns are exactly what you feed back to `ds()`.

Usage

```
ds_search(pattern = NULL)
```

Arguments

pattern optional search string, treated as a case-insensitive regular expression and matched against the series label and dataset_title. When NULL (the default) the full table is returned.

Value

A data.frame with the columns dataset, dataset_title, frequency, dim, code, label and path.

See Also

`ds_catalog()` for the dataset-level list and `ds_meta()` for one dataset's dimensions.

Examples

```
## Not run:  
# everything  
ds_search()  
  
# find unemployment series, then download one  
hits <- ds_search("unemployment")  
head(hits)  
ds(hits$dataset[1], setNames(list(hits$code[1]), hits$dim[1]))  
  
## End(Not run)
```

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