

# Package ‘cbsodataR’

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**Type** Package

**Title** Statistics Netherlands (CBS) Open Data API Client

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**Description** The data and meta data from Statistics Netherlands (www.cbs.nl) can be browsed and downloaded. The client uses the open data API of Statistics Netherlands.

**License** GPL-2

**URL** <https://github.com/edwindj/cbsodataR>

**BugReports** <https://github.com/edwindj/cbsodataR/issues>

**Imports** whisker, jsonlite, yaml, utils

**Suggests** knitr, rmarkdown, dplyr

**VignetteBuilder** knitr

**RoxygenNote** 5.0.1

**NeedsCompilation** no

**Repository** CRAN

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cache_clear	<i>clears the cache</i>
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**Description**

clears the cache

**Usage**

```
cache_clear()
```

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download_data	<i>Gets all data from a cbs table.</i>
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**Description**

Gets all data via bulk download. download\_data dumps the data in (international) csv format.

**Usage**

```
download_data(id, path = file.path(id, "data.csv"), ..., select = NULL,
              base_url = CBSOPENDATA)
```

**Arguments**

id	of cbs open data table
path	of data file, defaults to "<id>/data.csv"
...	optional filter statements to select rows of the data,
select	optional names of columns to be returned.
base_url	optionally specify a different server. Useful for third party data services implementing the same protocol.

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download_meta	<i>Dumps the meta data into a directory</i>
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**Description**

Dumps the meta data into a directory

**Usage**

```
download_meta(id, dir = id, ..., cache = FALSE, base_url = CBSOPENDATA)
```

**Arguments**

id	Id of CBS open data table
dir	Directory in which data should be stored. By default it creates a sub directory with the name of the id
...	not used
cache	Should meta data be cached?
base_url	optionally allow to specify a different server. Useful for third party data services implementing the same protocol.

**Value**

meta data object

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download_table	<i>Download a table from statistics Netherlands</i>
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**Description**

Download a table from statistics Netherlands

**Usage**

```
download_table(id, ..., dir = id, cache = FALSE, base_url = CBSOPENDATA)
```

**Arguments**

id	Identifier of CBS table (can be retrieved from <a href="#">get_table_list</a> )
...	Parameters passed on to <a href="#">download_data</a>
dir	Directory where table should be downloaded
cache	If metadata is cached use that, otherwise download meta data

`base_url` optionally specify a different server. Useful for third party data services implementing the same protocol.

`download_table` retrieves all raw meta data and data and stores these as csv files in the directory specified by `dir`. It is possible to add a filter. A filter is specified with `<column_name> = <values>` in which `<values>` is a character vector. Rows with values that are not part of the character vector are not returned.

### Examples

```
## Not run:

# download meta data and data from inflation/Consumer Price Indices
download_table(id="7196ENG")

## End(Not run)
```

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<code>get_data</code>	<i>Get data from Statistics Netherlands (CBS)</i>
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### Description

Retrieves data from a table of Statistics Netherlands. A list of tables can be retrieved with [get\\_table\\_list](#). Optionally the data can be filtered on category values. The filter is specified with `<column_name> = <values>` in which `<values>` is a character vector. Rows with values that are not part of the character vector are not returned. Note that the values have to be raw (un-recoded) values.

### Usage

```
get_data(id, ..., recode = TRUE, dir = tempdir(), base_url = CBSOPENDATA)
```

### Arguments

<code>id</code>	Identifier of table, can be found in <a href="#">get_table_list</a>
<code>...</code>	optional filter statements
<code>recode</code>	Should the categories of the table be recoded with their title (TRUE) or with their key (FALSE)? Should column names be coded with title (TRUE) or key (FALSE)
<code>dir</code>	Directory where the table should be downloaded. Defaults to temporary directory
<code>base_url</code>	optionally specify a different server. Useful for third party data services implementing the same protocol.

### Value

`data.frame` with the requested data. Note that a csv copy of the data is stored in `dir`.

**Note**

All data are downloaded using [download\\_table](#)

**Examples**

```
## Not run:  
  
# get data for main (000000) Consumer Price Index (7196ENG) for March 2000,  
  get_data(id="7196ENG", Periods="2000MM03", CPI="000000")  
  
## End(Not run)
```

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get_meta	<i>Get metadata of a cbs table</i>
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**Description**

Retrieve the meta data of a CBS open data table. Caching (cache=TRUE) may improve the performance considerably. The meta data of a CBS table is

**Usage**

```
get_meta(id, cache = FALSE, base_url = CBSOPENDATA)
```

**Arguments**

id	internal id of CBS table, can be retrieved with <a href="#">get_table_list</a>
cache	should the result be cached? C
base_url	optionally specify a different server. Useful for third party data services implementing the same protocol.

**Value**

cbs\_table object containing several data.frames with meta data.

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get\_meta\_from\_dir      *Load meta data from a downloaded table*

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**Description**

Load meta data from a downloaded table

**Usage**

```
get_meta_from_dir(dir)
```

**Arguments**

dir                      Directory where data was downloaded

**Value**

cbs\_table object with meta data

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get\_table\_list          *Retrieve a data.frame with requested cbs tables*

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**Description**

get\_table\_list by default a list of all tables and all columns will be retrieved. You can restrict the query by supplying multiple filter statements or by specifying the columns that should be returned.

**Usage**

```
get_table_list(..., select = NULL, base_url = CBSOPENDATA)
```

**Arguments**

...                      filter statement to select rows, e.g. Language="nl"  
 select                  character columns to be returned, by default all columns will be returned.  
 base\_url                optionally specify a different server. Useful for third party data services implementing the same protocol.

**Value**

data.frame with identifiers, titles and descriptions of tables

**Note**

get\_table\_list will cache results, so subsequent calls will be much faster.

**Examples**

```
## Not run:

# get list of english tables
tables_en <- get_table_list(Language="en")

# get list of dutch tables
tables_nl <- get_table_list(Language="nl")
View(tables_nl)

## End(Not run)
```

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get_themes	<i>Get list of all cbs thematic entries.</i>
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**Description**

Returns a list of all cbs themes.

**Usage**

```
get_themes(..., select = NULL, base_url = CBSOPENDATA)
```

**Arguments**

...	Use this to add a filter to the query e.g. <code>get_themes(ID=10)</code> .
select	character vector with names of wanted properties. default is all
base_url	optionally specify a different server. Useful for third party data services implementing the same protocol.

**Value**

A data.frame with various properties of SN/CBS themes.

The filter is specified with `<column_name> = <values>` in which `<values>` is a character vector. Rows with values that are not part of the character vector are not returned.

**Examples**

```
## Not run:
# get list of all themes
get_themes()

# get list of all dutch themes from the Catalog "CBS"
get_themes(Language="nl", Catalog="CBS")

## End(Not run)
```

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