

# Package ‘opencis’

May 9, 2026

**Type** Package

**Title** Import Data from Spanish Sociological Research Center (CIS)

**Version** 0.1.0

**Description** Search and import data directly to R from the Spanish Sociological Research Center (CIS) <<https://www.cis.es/inicio>>. The CIS is a public institution that conducts electoral and sociological research studies on the Spanish society. The CIS has a large database of surveys that can be accessed through its website. The package includes functions to search for surveys, survey questions and timeseries, and import the data directly to R.

**License** GPL (>= 3)

**Encoding** UTF-8

**Language** en-US

**RoxygenNote** 7.3.3

**Depends** R (>= 3.5.0)

**Imports** httr (>= 1.4.7), tibble (>= 3.0.0), purrr (>= 1.0.0), haven (>= 2.5.3), magrittr (>= 2.0.0), rvest (>= 1.0.0), stringr (>= 1.0.0), memoise (>= 2.0.0)

**URL** <https://opencis.spainelectoralproject.com>,  
<https://github.com/hmeleiro/opencis>

**BugReports** <https://github.com/hmeleiro/opencis/issues>

**Suggests** knitr, testthat (>= 3.0.0), rmarkdown

**VignetteBuilder** knitr

**Config/Needs/website** hmeleiro/spainelectoraltheme

**Config/testthat/edition** 3

**NeedsCompilation** no

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**Repository** CRAN

**Date/Publication** 2026-04-29 19:10:07 UTC

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browse_pdf	<i>Open the questionnaire PDF of a CIS study</i>
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### Description

Opens a PDF document from a CIS study in the default browser.

### Usage

```
browse_pdf(study_code, wanted_file = "ques")
```

### Arguments

study_code	A string with the study code.
wanted_file	A keyword used to match the PDF filename inside the ZIP. Use "ques" (default) for the questionnaire or "ft" for the technical sheet.

### Details

CIS study ZIP files typically contain two PDF documents:

- The **questionnaire** (cuestionario): use wanted\_file = "ques".
- The **technical sheet** (ficha técnica): use wanted\_file = "ft".

### Value

Called for its side effect of opening the PDF in the browser. Returns NULL invisibly.

### Examples

```
if (interactive()) {
  # Open the questionnaire (cuestionario) for study 3328
  browse_pdf("3328")

  # Open the technical sheet (ficha técnica) for study 3328
  browse_pdf("3328", wanted_file = "ft")
}
```

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clear_cache	<i>Clear the opencis session cache</i>
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**Description**

Clears the in-memory cache used by [search\\_cis](#) and [read\\_cis](#). Call this when you want to force fresh data to be retrieved from the CIS server within the same R session.

**Usage**

```
clear_cache()
```

**Value**

NULL invisibly.

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download_study	<i>Download a CIS study ZIP file to disk</i>
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**Description**

Downloads the data ZIP file for a CIS study to a specified directory, instead of a temporary folder. Useful for projects that need to keep the raw data files.

**Usage**

```
download_study(study_code, destdir = ".")
```

**Arguments**

study_code	A string with the study code.
destdir	A string with the directory where the ZIP file will be saved. Defaults to the current working directory.

**Value**

The path to the saved ZIP file, invisibly.

**Examples**

```
# Save the ZIP file to a temporary directory
path <- download_study("3328", destdir = tempdir())
cat("Saved to:", path, "\n")
```

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get\_data\_dictionary     *Extract a data dictionary from a CIS study data frame*

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### Description

Returns a tibble listing each variable in the data along with its variable label and value labels, as loaded by haven.

### Usage

```
get_data_dictionary(data)
```

### Arguments

**data**                    A data.frame loaded from a CIS .sav file, typically the output of [read\\_cis](#).

### Value

A tibble with columns:

**variable** Variable name.

**label** Variable label, or NA if none.

**value\_labels** A named numeric vector of value labels, or NULL for unlabelled variables (list-column).

### Examples

```
# Create a small labelled data frame
df <- data.frame(
  SEX0 = haven::labelled(c(1, 2, 1), labels = c(Hombre = 1, Mujer = 2)),
  EDAD = c(34, 51, 29)
)
attr(df$SEX0, "label") <- "Sexo"
attr(df$EDAD, "label") <- "Edad"

# Inspect its variable dictionary
dict <- get_data_dictionary(df)
print(dict)

# Find variables with a specific keyword in their label
dict[grepl("sexo", dict$label, ignore.case = TRUE), ]

# Inspect value labels for a specific variable
sex_var <- match("SEX0", dict$variable)
if (!is.na(sex_var)) {
  dict$value_labels[[sex_var]]
}
```

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get_metadata	<i>Get metadata of a CIS study</i>
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**Description**

Retrieves the technical metadata of a CIS study from its detail page, including study dates, type, country, author, and thematic indices.

**Usage**

```
get_metadata(study_code)
```

**Arguments**

study\_code      A string with the study code.

**Value**

A tibble with two columns: field and value.

**Examples**

```
# Get metadata for study 3328
meta <- get_metadata("3328")
print(meta)

# Access a specific field
meta$value[meta$field == "Tipo de estudio"]
```

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read_cis	<i>Import a CIS study</i>
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**Description**

Download and import the data of a CIS study.

**Usage**

```
read_cis(study_code)
```

**Arguments**

study\_code      A string with the study code.

**Value**

A data.frame with the study data.

**Examples**

```
# If you know the study code you can just read it into R
df <- read_cis("3328")
print(df)

# If you dont know the study code, you can search for a study using search_cis() function:
studies <- search_cis(q = "gastronomia")
print(studies)

df <- read_cis(studies$study[1])
print(df)
```

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search_all_cis	<i>Search all CIS results with automatic pagination</i>
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**Description**

Calls [search\\_cis](#) repeatedly, incrementing the page index until no more results are returned, and returns all results in a single tibble.

**Usage**

```
search_all_cis(
  q = "",
  from = NULL,
  to = NULL,
  sort = "relevance",
  catalogo = "estudio",
  ...
)
```

**Arguments**

q	String. The search query. Default is an empty string.
from	Date or NULL. The start date for filtering results. Default is NULL. The date format must be "YYYY-MM-DD".
to	Date or NULL. The end date for filtering results. Default is NULL. The date format must be "YYYY-MM-DD".
sort	String. The sorting order for the results ("publishDate-", "publishDate+", "relevance"). Default is "relevance".
catalogo	String. The catalog type ("estudio", "pregunta", "serie"). Default is "estudio".
...	Additional parameters passed to <a href="#">search_cis</a> .

**Value**

A tibble with all search results across all pages.

**Examples**

```
# Retrieve all postelectoral studies (all pages)
all_studies <- search_all_cis(q = "postelectoral")
print(nrow(all_studies))

# Filter by date range
studies_2010_2020 <- search_all_cis(
  q = "ideologia",
  from = "2010-01-01",
  to = "2020-12-31"
)
print(studies_2010_2020)
```

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search_cis	<i>Search for CIS studies.</i>
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**Description**

Searches for CIS studies using the CIS search engine.

**Usage**

```
search_cis(
  start = 1,
  q = "",
  from = NULL,
  to = NULL,
  sort = "relevance",
  catalogo = "estudio",
  ...
)
```

**Arguments**

start	Integer. The starting page for the search results. Default is 1, iterate to get more results.
q	String. The search query. Default is an empty string.
from	Date or NULL. The start date for filtering results. Default is NULL. The date format must be "YYYY-MM-DD".
to	Date or NULL. The end date for filtering results. Default is NULL. The date format must be "YYYY-MM-DD".



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