Package 'owidapi'

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Title Access the Our World in Data Chart API

Version 0.1.3

Description Retrieve data from the Our World in Data (OWID) Chart API <https://docs.owid.io/projects/etl/api/>. OWID provides public access to more than 4,000 charts focusing on global problems such as poverty, disease, hunger, climate change, war, existential risks, and inequality.

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Depends R (>= 4.1)

Imports cli (>= 3.0.0), httr2 (>= 1.0.0), jsonlite (>= 1.0.0), lifecycle, tibble, utils, rlang

Suggests curl, shiny, testthat (>= 3.0.0)

URL https://github.com/econdataverse/r-owidapi, https://econdataverse.github.io/r-owidapi/

BugReports https://github.com/econdataverse/r-owidapi/issues

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Author Christoph Scheuch [aut, cre, cph] (ORCID: <https://orcid.org/0009-0004-0423-6819>)

Maintainer Christoph Scheuch <christoph@tidy-intelligence.com>

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`owid_embed` *Embed Our World in Data Chart in HTML*

Description

[Experimental]

Creates HTML code to embed an interactive chart from Our World in Data into an HTML document using an iframe.

Usage

```
owid_embed(url, width = "100%", height = "600px")
```

Arguments

`url`	A character string containing the URL of the Our World in Data chart. Must begin with "https://ourworldindata.org/grapher/".
`width`	A character string specifying the width of the iframe. Default is "100%".
`height`	A character string specifying the height of the iframe. Default is "600px".

Value

A character string containing the HTML iframe to embed the chart.

Examples

```
owid_embed(
  "https://ourworldindata.org/grapher/co2-emissions-per-capita",
  width = "90%",
  height = "500px"
)
```

owid_get *Download data from Our World in Data*

Description

Retrieves data from Our World in Data (OWID) by specifying a chart identifier or direct URL. Allows filtering by entities and time periods.

Usage

```
owid_get(
  chart_id = NULL,
  entities = NULL,
  start_date = NULL,
  end_date = NULL,
  url = NULL,
  use_column_short_names = TRUE,
  snake_case = TRUE
)
```

Arguments

chart_id	Character string specifying the chart identifier (e.g., "life-expectancy"). Not required if url is provided.
entities	Vector of entity codes (e.g., c("USA", "DEU")). If NULL, data for all available entities is returned.
start_date	Start date for filtering data. Can be a date string or a year. If NULL, starts from the earliest available data.
end_date	End date for filtering data. Can be a date string or a year. If NULL, ends with the latest available data.
url	Direct URL to an OWID dataset. If provided, chart_id is ignored.
use_column_short_names	Logical. If TRUE (default), uses short column names.
snake_case	Logical. If TRUE (default), converts column names to lowercase.

Value

A tibble containing the requested OWID data.

Examples

```
# Download a full table
owid_get("life-expectancy")

# Download a table only for selected entities
```

```
owid_get("life-expectancy", c("AUS", "AUT", "GER"))

# Download a table only for selected time periods
owid_get("life-expectancy", c("USA"), 1970, 1980)

# Download daily data for selected time periods
owid_get(
 "daily-covid-vaccination-doses-per-capita", "DEU",
 "2020-12-28", "2020-12-31"
)

# Download a table by just providing an URL (with or without .csv)
owid_get(
 url = paste0(
   "https://ourworldindata.org/grapher/civil-liberties-score-fh",
   "?tab=chart&time=earliest..2023&country=ARG~AUS~BWA~CHN~ALB~DEU"
 )
)
owid_get(
 url = paste0(
   "https://ourworldindata.org/grapher/civil-liberties-score-fh.csv",
   "?tab=chart&time=earliest..2023"
 )
)
```

`owid_get_catalog` *Download data catalog of Our World in Data*

Description

Downloads the data catalog of Our World in Data (OWID) hosted on Datasette. The catalog is retrieved page by page, so the complete set of charts is returned rather than just the first page.

Usage

```
owid_get_catalog(snake_case = TRUE)
```

Arguments

`snake_case`	Logical. If TRUE (default), converts column names to lowercase.

Value

A tibble containing the OWID catalog, with one row per chart.

Examples

```
# Download a full table
owid_get_catalog()
```

`owid_get_metadata` *Download metadata from Our World in Data*

Description

Retrieves the metadata for a data set from Our World in Data (OWID) by specifying a chart identifier or direct URL.

Usage

```
owid_get_metadata(chart_id = NULL, url = NULL)
```

Arguments

`chart_id`	Character string specifying the chart identifier (e.g., "life-expectancy"). Not required if `url` is provided.
`url`	Direct URL to an OWID chart. If provided, `chart_id` is ignored.

Value

A list containing the requested OWID metadata.

Examples

```
# Download metadata using a data set
owid_get_metadata("life-expectancy")

# Download metadata using an url
owid_get_metadata(
 url = "https://ourworldindata.org/grapher/civil-liberties-score-fh"
)
```

owid_output *Create OWID chart output elements in Shiny*

Description

[Experimental]

This function creates an HTML output element for embedding Our World in Data (OWID) charts in a Shiny application. It should be used in the UI definition of your Shiny app.

Usage

```
owid_output(id)

owid_server(id, url, width = "100%", height = "600px")
```

Arguments

id	Character string. The ID of the output element.
url	Character string. The URL of the OWID chart to embed.
width	Character string. The width of the chart (default: "100%").
height	Character string. The height of the chart (default: "600px").

Value

A Shiny HTML output element where the OWID chart will be rendered.

Examples

```
library(shiny)

ui <- fluidPage(
 owid_output("gdp_chart"),
 owid_output("co2_chart")
)

server <- function(input, output) {
 owid_server(
   "gdp_chart",
   "https://ourworldindata.org/grapher/gdp-per-capita-worldbank?tab=line"
 )
 owid_server(
   "co2_chart",
   "https://ourworldindata.org/grapher/co2-emissions-per-capita",
   height = "500px"
 )
}

shinyApp(ui = ui, server = server)
```

owid_search *Search for keywords in OWID catalog data*

Description

This function searches for a vector of keywords within specified columns of an OWID catalog data frame. If no columns are specified, it searches all character and factor columns.

Usage

```
owid_search(data, keywords, columns = NULL)
```

Arguments

data	A data frame, typically obtained from owid_get_catalog.
keywords	A character vector of one or more keywords to search for. The search is case-insensitive.
columns	An optional character vector of column names to search within. If NULL (default), all character and factor columns are searched.

Value

A filtered data frame containing only rows that match at least one of the keywords in at least one of the specified columns.

Examples

```
# Get the OWID catalog
catalog <- owid_get_catalog()

# owid_get_catalog() returns NULL if the API is unreachable
if (!is.null(catalog)) {
  # Search for climate or carbon in all text columns
  print(owid_search(catalog, c("climate", "carbon")))

  # Search only in the title column
  print(owid_search(catalog, c("climate", "carbon"), c("title")))
}
```

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