

Package ‘owidapi’

June 23, 2025

Title Access the Our World in Data Chart API

Version 0.1.1

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 5,000 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/tidy-intelligence/r-owidapi>,
<https://tidy-intelligence.github.io/r-owidapi/>

BugReports <https://github.com/tidy-intelligence/r-owidapi/issues>

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owid_embed	<i>Embed Our World in Data Chart in HTML</i>
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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.

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.

Examples

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

owid_get_metadata	<i>Download metadata from Our World in Data</i>
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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

<code>id</code>	Character string. The ID of the output element.
<code>url</code>	Character string. The URL of the OWID chart to embed.
<code>width</code>	Character string. The width of the chart (default: "100%").
<code>height</code>	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	<i>Search for keywords in OWID catalog data</i>
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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()

# Search for climate or carbon in all text columns
owid_search(catalog, c("climate", "carbon"))

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

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