

Package ‘owidapi’

February 27, 2025

Title Access the Our World in Data Chart API

Version 0.1.0

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.

License MIT + file LICENSE

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>

Config/testthat/edition 3

Encoding UTF-8

RoxygenNote 7.3.2

NeedsCompilation no

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

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

Repository CRAN

Date/Publication 2025-02-27 17:10:02 UTC

Contents

owid_embed	2
owid_get	3
owid_get_catalog	4

owid_get_metadata	5
owid_output	6
owid_search	7
Index	8

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

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

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

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>
-------------	---

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"))
```

Index

`owid_embed`, 2
`owid_get`, 3
`owid_get_catalog`, 4, 7
`owid_get_metadata`, 5
`owid_output`, 6
`owid_search`, 7
`owid_server (owid_output)`, 6