Package ‘owidR’

August 7, 2022

Type Package
Title A Package for Importing Data from Our World in Data
Version 1.3.1
Author Piers York
Maintainer Piers York <piersyork@gmail.com>
Description Imports data from the Our World in Data website, offering easy to use functions for searching for datasets, downloading them into R and visualising them.

Imports dplyr, rvest, readr, leaflet, stringr, ggplot2, sf, magrittr, purrr, forcats, jsonlite, htmltools, xml2, curl, ggrepel, scales, rlang, grDevices, htr
Depends R (>= 3.5.0)
License MIT + file LICENSE
Encoding UTF-8
Language en-GB
RoxygenNote 7.2.1
Suggests testthat (>= 3.0.0), utils, showtext, sysfonts, knitr, rmarkdown, plm, texreg

Config/testthat/edition 3
VignetteBuilder knitr
NeedsCompilation no
Repository CRAN
Date/Publication 2022-08-07 16:50:02 UTC

R topics documented:

owid .......................................................... 2
owid_covid ..................................................... 3
Get data from Our World in Data

Description

Get a dataset used in an OWID chart.

Usage

```r
owid(chart_id = NULL, rename = NULL, tidy.date = TRUE, ...)
```

Arguments

- `chart_id`: The chart_id as returned by `owid_search`
- `rename`: Rename the value column. Currently only works if there is just one value column.
- `tidy.date`: If TRUE then a year column that should be a date column will automatically detected and transformed. If FALSE then the Year column will be kept as is. Defaults to TRUE.
- `...`: Not to be used.

Value

A tibble of an owid dataset with the added class `owid`.

Examples

```r
owid_search("emissions")
emissions <- owid("per-capita-ghg-emissions")
```
owid_covid

Get the Our World in Data covid-19 dataset

Description
Get the Our World in Data covid-19 dataset

Usage
owid_covid()

Value
A dataframe with multiple variables on the covid-19 pandemic.

owid_map
Create a choropleth world map using data from Our World in Data.

Description
A function to easily create a choropleth world map using data from Our World in Data.

Usage
owid_map(
  data = data.frame(),
  col = 4,
  palette = "Reds",
  mode = "plot",
  year = NULL
)

Arguments
  data     A dataframe returned by owid(). This dataframe must have country names in
           the entity column, not all data returned by owid() will be like this.
  col      Either the column number to be treated as the value or a character string specifying
           the name of the column. Defaults to 3, which is the first possible value
           column.
  palette  The RColorBrewer palette to be used.
  mode     If "plot", the output will be a ggplot2 map. If "view", the output will be a leaflet
           interactive map.
  year     The year to be mapped. Defaults to NULL, which plots the most recent year
           with data available.
Value

Either a ggplot2 map (for mode = "plot") or a leaflet map (for mode = "view").

Examples

```r
mental <- owid("share-with-mental-and-substance-disorders")

# simple ggplot2 map
owid_map(mental)

# interative map with blue palette
owid_map(mental, mode = "view", palette = "Blues")
```

Description

A wrapper around ggplot to provide an quick visualisation of owid data.

Usage

```r
owid_plot(
  data = NULL,
  col = 4,
  summarise = TRUE,
  filter = NULL,
  years = NULL,
  show.all = FALSE
)
```

Arguments

- `data`: A tibble returned from `owid()`.
- `col`: Either the column number to be treated as the value or a character string specifying the name of the value column. Defaults to 3, which is the first possible value column.
- `summarise`: A logical value. If TRUE, plot takes the mean value. If FALSE, each entity is plotted, it is recommended to use this in conjunction with the filter argument to avoid too many entity’s being plotted.
- `filter`: The entity’s to include in the plot.
- `years`: The years to be included in the plot.
- `show.all`: A logical value indicating weather all Entities should be included in the plot.
Description

Search the data sources used in OWID charts

Usage

owid_search(term)

Arguments

term A search term

Value

A matrix of chart titles and chart ids

Examples

# returns the titles and chart_ids of all charts containing the word 'emissions'
owid_search("emissions")
**owid_source**

*Get source information on an OWID dataset*

**Description**

A function to get source information from an OWID dataset and display it in the R console.

**Usage**

`owid_source(data)`

**Arguments**

- `data`  
  A tibble returned from `owid()`.

**Value**

Displays the information in an easy to read format in the R console, also returns a list of data information.

**Examples**

```r
rights <- owid("human-rights-scores")
owid_source(rights)
```

---

**pal_owid**

*Colour palettes based on the colours used by Our World in Data*

**Description**

Colour palettes based on the colours used by Our World in Data

**Usage**

`pal_owid(alpha)`

**Arguments**

- `alpha`  
  Transparency level, a real number in (0, 1).

**Value**

A ggproto object to be used in the context of ggplot2.
scale_fill_owid

Our World in Data Colour Scales

Description

Our World in Data Colour Scales

Usage

scale_fill_owid(alpha = 1, ...)

scale_colour_owid(alpha = 1, ...)

scale_color_owid(alpha = 1, ...)

Arguments

alpha Transparency level, a real number in (0, 1).

... additional parameters for `discrete_scale`

Value

A ggproto object to be used in the context of ggplot2.

Examples

library(ggplot2)
library(dplyr)
library(ggrepel)

# make an Our World in Data style chart

venom <- owid("incidence-of-venomous-animal-contact")

colnames(venom) <- c("entity", "code", "year", "venom")

# venom %>%
#   filter(\%in\% c("India", "Australia", "United States", "Guyana")) %>%
#   group_by(entity) %>%
#   mutate(label = ifelse(year == max(year), entity, NA)) %>%
#   ggplot(aes(x = year,
#             y = venom,
#             colour = entity)) +
#   geom_line() +
#   geom_point(size = 1) +
#   geom_text_repel(aes(label = label),
#                hjust = 0, xlim = Inf,
#                na.rm = TRUE, segment.colour = "grey") +
theme_owid ggplot2 Theme in the Style of Our World in Data

Description

ggplot2 Theme in the Style of Our World in Data

Usage

theme_owid(import_fonts = TRUE)

Arguments

import_fonts Import the fonts used by Our World in Data

Value

A ggplot2 theme to be added to a ggplot2 plot.

view_chart View an OWID chart in your browser

Description

A function that opens the original OWID chart in your browser.

Usage

view_chart(x)

Arguments

x Either a tibble returned by owid(), or a chart_id.

Value

Opens the chart in your browser.
Examples

```r
firearm_suicide <- owid("suicide-rate-by-firearm")
view_chart(firearm_suicide)
```

Description

Function that returns a simple feature collection of class sf. Map data is from naturalearthdata.com. Designed to be used internally.

Usage

```r
world_map_data()
```

Value

An object of class sf.
Index

discrete_scale, 7

owid, 2
owid_covid, 3
owid_map, 3
owid_plot, 4
owid_search, 5
owid_source, 6

pal_owid, 6

scale_color_owid(scale_fill_owid), 7
scale_colour_owid(scale_fill_owid), 7
scale_fill_owid, 7

theme_owid, 8

view_chart, 8

world_map_data, 9