Package ‘owidR’

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Type Package
Title A Package for Importing Data from Our World in Data
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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, forcats, jsonlite, htmltools, purrr, xml2, curl, ggrepel, scales, rlang, grDevices, httr
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Get data from Our World in Data

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.
owid_plot

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)

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

owid_plot  
Plot an owid dataset

Description

A wrapper around ggplot to provide a 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 whether all Entities should be included in the plot.
owid_search

Value

A ggplot object.

Examples

human_rights <- owid("human-rights-scores")

# Plot average score over time
owid_plot(human_rights)

# Plot score for a selection of countries
owid_plot(human_rights, summarise = FALSE,
         filter = c("United Kingdom", "Sweden", "North Korea", "South Korea"))

owid_search

Search the data sources used in OWID charts

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

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.
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(entity %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") +
# coord_cartesian(clip = "off") +
# scale_colour_owid() +
# scale_y_continuous(limits = c(0, 1000)) +
# labs(title = "Incidence of venomous animal contact, 1990 to 2017") +
# theme_owid(import_fonts = FALSE) + # set true to use same fonts as owid
# theme(plot.margin = margin(10, 80, 5, 10), legend.position = "none",
#       panel.grid.major.x = element_blank(), axis.title = element_blank())

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### 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 ggplot theme to be added to a ggplot2 plot.

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### 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)
```

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**world_map_data**

Get world map data.

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**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.
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