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.
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R topics documented:

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owid \hspace{1cm} \text{Get data from Our World in Data}

Description

Get a dataset used in an OWID chart.

Usage

\texttt{owid(chart_id = NULL, rename = NULL, tidy.date = TRUE, ...)}

Arguments

- \texttt{chart_id} \hspace{1cm} The chart_id as returned by \texttt{owid_search}
- \texttt{rename} \hspace{1cm} Rename the value column. Currently only works if there is just one value column.
- \texttt{tidy.date} \hspace{1cm} 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.
- ... \hspace{1cm} Not to be used.

Value

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

Examples

\texttt{owid_search("emissions")}
\texttt{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**

```r
owid_covid()
```

**Value**

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

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**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**

```r
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)

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

**owid_plot**  
*Plot an owid dataset*

**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.
owid_search

Value
A ggplot object.

Examples

```r
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"))
```

Description
Search the data sources used in OWID charts

Usage
```r
owid_search(term)
```

Arguments

term A search term

Value
A matrix of chart titles and chart ids

Examples

```r
# 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**

```r
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**

```r
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")

venom %>%
  filter(entity %in% c("India", "Australia", "United States")) %>%
  group_by(entity) %>%
  mutate(label = ifelse(year == max(year), entity, NA)) %>%
  ggplot(aes(x = year,
             y = Incidence - Venomous animal contact - Sex: Both - Age: Age-standardized (Rate),
             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",
    x = "", y = "") +
theme_owid() +
theme(plot.margin = margin(5, 80, 5, 10), legend.position = "none",
    panel.grid.major.x = element_blank())

---

**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.
world_map_data

Examples

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

world_map_data

Get world map data.

Description

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

Usage

world_map_data()

Value

An object of class sf.
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