

Package: CepalStatR (via r-universe)

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Title Access to the 'CEPALSTAT API'

Version 0.9.0

Description Explore metadata and retrieve indicators from the statistical portal of the Economic Commission for Latin America and the Caribbean
<<https://statistics.cepal.org/portal/cepalstat/>>. Provides a reproducible interface to access the 'CEPALSTAT API', organize data into tidy formats, and generate both static and interactive visualizations.

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URL <https://github.com/Henry-Osorto/CepalStatR>,
<https://henry-osorto.github.io/CepalStatR/>

BugReports <https://github.com/Henry-Osorto/CepalStatR/issues>

Encoding UTF-8

Depends R (>= 4.1)

Imports base64enc, dplyr, httr2, htmltools, jsonlite, magrittr, reactable, stringr, tidyselect, rlang, collapsibleTree, gridExtra, htmlwidgets

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Repository <https://henry-osorto.r-universe.dev>

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call.data	<i>Call Data Indicators CEPALSTAT</i>
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Description

Retrieves indicator data from the CEPALSTAT API in JSON format and returns a data frame with values, dimensions, metadata, and optionally footnotes.

Usage

```
call.data(id.indicator, language.en = TRUE, notes = FALSE,
          progress = TRUE, add.indicator.name = TRUE)
```

Arguments

id.indicator	A single CEPALSTAT indicator ID.
language.en	Logical. If TRUE (default), the output uses English labels. If FALSE, Spanish labels are used when applicable.
notes	Logical. If TRUE, footnotes are joined when available.
progress	Logical. If TRUE, progress messages are shown.
add.indicator.name	Logical. If TRUE, adds indicator ID and indicator name.

Value

A data frame with indicator values, dimension labels, and metadata.

Examples

```
data <- call.data(id.indicator = 4788)
data <- call.data(id.indicator = 4788, language.en = FALSE)
data <- call.data(id.indicator = 4788, notes = TRUE)
```

call.indicators	<i>Call indicators from CEPALSTAT</i>
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Description

Retrieves the thematic tree from the CEPALSTAT API in JSON format and returns a data frame with the hierarchical structure of indicators.

Usage

```
call.indicators(language.en = TRUE, progress = TRUE)
```

Arguments

language.en	Logical. If TRUE (default), labels are returned in English. If FALSE, labels are returned in Spanish.
progress	Logical. If TRUE (default), progress messages are displayed.

Value

A data frame with the hierarchical thematic structure of CEPALSTAT indicators and the corresponding indicator ID.

Examples

```
data.indicators <- call.indicators()  
data.indicators <- call.indicators(language.en = FALSE)
```

countries	<i>List of countries available in CEPALSTAT</i>
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Description

Retrieves the list of countries available in CEPALSTAT using the dimensions endpoint of a reference indicator. This approach avoids downloading full datasets and ensures consistency with the API structure.

Usage

```
countries(language.en = TRUE)
```

Arguments

language.en	Logical. If TRUE (default), returns country names in English. If FALSE, returns names in Spanish.
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Value

A data frame containing the list of countries.

Examples

```
countries()
countries(language.en = FALSE)
```

pyramids

Population pyramids

Description

Creates one or multiple population pyramids for a selected country and years using CEPALSTAT population-by-age-and-sex data.

Usage

```
pyramids(
  country,
  years = 1:31,
  language.en = TRUE,
  color = c("#0C4A61", "#34B0AA"),
  save = FALSE,
  file = NULL,
  format = c("png", "pdf", "svg"),
  height = 5,
  width = 7,
  caption = TRUE,
  progress = TRUE
)
```

Arguments

country	Character. Name of the country or region to plot.
years	Numeric vector of positions between 1 and 31 corresponding to 5-year intervals from 1950 to 2100.
language.en	Logical. If TRUE (default), English labels are used. If FALSE, Spanish labels are used.
color	Character vector of length 2 with colors for men and women.
save	Logical. If TRUE, saves the resulting figure.
file	Character. Output filename when save = TRUE. If NULL, the file is saved to a temporary directory using tempdir().
format	Character. Output format when save = TRUE. One of "png" (default), "pdf" or "svg".

height	Numeric. Height of saved figure.
width	Numeric. Width of saved figure.
caption	Logical. If TRUE, adds a caption with source information.
progress	Logical. If TRUE, progress messages are shown.

Value

Invisibly returns a grob object created by `gridExtra::arrangeGrob()`.

Examples

```
# Single year
pyramids(country = "Honduras", years = 16)

# Multiple years
pyramids(country = "Honduras", years = c(1, 5, 10, 15))

#' # Save as PNG
pyramids(country = "Honduras",
          years = c(1, 5, 10, 15),
          save = TRUE,
          file = file.path(tempdir(), "pyramids.png"))

# Save as PDF
pyramids(country = "Honduras",
          years = c(1, 5, 10, 15),
          save = TRUE,
          format = "pdf",
          file = file.path(tempdir(), "pyramids.pdf"))

# Save as SVG
pyramids(country = "Honduras",
          years = c(1, 5, 10, 15),
          save = TRUE,
          format = "svg",
          file = file.path(tempdir(), "pyramids.svg"))
```

Description

Creates a ranking chart for a CEPALSTAT indicator belonging to the Sustainable Development Goals (SDG/ODS) dimension, using the latest available data by country.

Usage

```
ranking.sdg(  
  id.indicator,  
  language.en = TRUE,  
  save = FALSE,  
  file = NULL,  
  format = c("png", "pdf", "svg"),  
  height = 5,  
  width = 9,  
  size.title = 10,  
  title = TRUE,  
  caption = TRUE,  
  color = "#0C4A61",  
  color.gc = "#34B0AA",  
  progress = TRUE  
)
```

Arguments

id.indicator	Numeric or character. Indicator ID.
language.en	Logical. If TRUE (default), English labels are used. If FALSE, Spanish labels are used.
save	Logical. If TRUE, saves the resulting figure.
file	Character. Output filename when save = TRUE. If NULL, the file is saved to a temporary directory using tempdir().
format	Character. Output format when save = TRUE. One of "png" (default), "pdf" or "svg".
height	Numeric. Height of saved figure.
width	Numeric. Width of saved figure.
size.title	Numeric. Title size.
title	Logical. If TRUE, displays the chart title.
caption	Logical. If TRUE, displays a note indicating the latest available year by country.
color	Character. Color for countries in the ranking.
color.gc	Character. Color for regional aggregates if present.
progress	Logical. If TRUE, shows progress messages during execution.

Value

Invisibly returns a ggplot object.

Examples

```
ranking.sdg(id.indicator = 3682)  
ranking.sdg(id.indicator = 3682, language.en = FALSE)
```

```
ranking.sdg(id.indicator = 3682,
            save = TRUE,
            file = file.path(tempdir(), "ranking_sdg.png"))

ranking.sdg(id.indicator = 3682,
            save = TRUE,
            format = "pdf",
            file = file.path(tempdir(), "ranking_sdg.pdf"))

ranking.sdg(id.indicator = 3682,
            save = TRUE,
            format = "svg",
            file = file.path(tempdir(), "ranking_sdg.svg"))
```

topic_map

CEPALSTAT thematic map of indicators

Description

Creates an interactive thematic tree of CEPALSTAT indicators using `collapsibleTree`, with the same visual header and footer style as `viewer.indicators()`.

Usage

```
topic_map(language.en = TRUE, progress = TRUE, open.browser = FALSE)
```

Arguments

<code>language.en</code>	Logical. If TRUE (default), English labels are used. If FALSE, Spanish labels are used.
<code>progress</code>	Logical. If TRUE, progress messages are shown.
<code>open.browser</code>	Logical. If TRUE, the generated HTML is saved to a temporary file and opened in the default web browser. Defaults to FALSE.

Value

A browsable HTML widget.

Examples

```
topic_map()
```

```
topic_map(language.en = FALSE)
```

viewer.indicators *Viewer for CEPALSTAT indicators*

Description

Displays an interactive HTML table for browsing the hierarchical structure of CEPALSTAT indicators using `call.indicators()` as backend.

Usage

```
viewer.indicators(
  language.en = TRUE,
  progress = TRUE,
  show_search = TRUE,
  striped = TRUE,
  bordered = FALSE,
  compact = FALSE,
  highlight = TRUE,
  full_width = TRUE,
  page_size = 15,
  open.browser = FALSE
)
```

Arguments

<code>language.en</code>	Logical. If TRUE (default), the viewer uses English labels. If FALSE, Spanish labels are used.
<code>progress</code>	Logical. If TRUE, progress messages are shown.
<code>show_search</code>	Logical. If TRUE, enables global search in the table.
<code>striped</code>	Logical. If TRUE, striped rows are shown.
<code>bordered</code>	Logical. If TRUE, table borders are shown.
<code>compact</code>	Logical. If TRUE, reduces row padding.
<code>highlight</code>	Logical. If TRUE, highlights rows on hover.
<code>full_width</code>	Logical. If TRUE, table uses full available width.
<code>page_size</code>	Integer. Number of rows to show per page.
<code>open.browser</code>	Logical. If TRUE, the generated HTML is saved to a temporary file and opened in the default web browser. Defaults to FALSE.

Value

A browsable HTML object containing the header and interactive table.

Examples

```
viewer.indicators()  
viewer.indicators(language.en = FALSE)  
viewer.indicators(open.browser = TRUE)
```

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