Package 'ChileDataAPI'

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Type Package

Title Access Chilean Data via APIs and Curated Datasets

Version 0.2.0

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Description Provides functions to access data from public RESTful APIs including 'FINDIC API', 'REST Countries API', 'World Bank API', and 'Nager.Date', retrieving real-time or historical data related to Chile such as financial indicators, holidays, international demographic and geopolitical indicators, and more. Additionally, the package includes curated datasets related to Chile, covering topics such as human rights violations during the Pinochet regime, electoral data, census samples, health surveys, seismic events, territorial codes, and environmental measurements. The package supports research and analysis focused on Chile by integrating open APIs with high-quality datasets from multiple domains. For more information on the APIs, see: 'FINDIC' <https://findic.cl/>, 'REST Countries' <https://restcountries.com/>, 'World Bank API' <https://datahelpdesk.worldbank.org/knowledgebase/articles/889392>, and 'Nager.Date' <https://date.nager.at/Api>.

License GPL-3

Language en

URL https://github.com/lightbluetitan/chiledataapi, https://lightbluetitan.github.io/chiledataapi/

BugReports https://github.com/lightbluetitan/chiledataapi/issues

Encoding UTF-8

LazyData true

Depends R (>= 4.1.0)

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RoxygenNote 7.3.2

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VignetteBuilder knitr

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Contents

census_chile_2017_df *Chilean Census Example Data (San Pablo Commune, 2017)*

Description

This dataset, census_chile_2017_df, is a data frame containing microdata from the 2017 Chilean census, specifically from the commune of San Pablo. It was selected due to its relatively small size, making it suitable for inclusion in CRAN and GitHub repositories. The dataset includes 7,512 observations and 60 variables related to housing, households, individuals, migration, education, and geographic information. All variable names and data values are in Spanish, as retrieved from the original source.

Usage

```
data(census_chile_2017_df)
```

Format

A data frame with 7,512 observations and 60 variables:

region Administrative region code

provincia Province code

comuna Commune code

dc Census district code

area Urban/rural area indicator

zc_loc Census location zone

id_zona_loc Location zone ID

nviv Number of dwellings

nhogar Number of households

personan Person number

p07 Sex

p08 Relationship to head of household

p09 Age

p10 Place of birth (Chile or abroad)

p10comuna Commune of birth

p10pais Country of birth

p11 Last place of residence

p11comuna Commune of last residence

p11pais Country of last residence

p12 Place of residence in 2012

p12comuna Commune of residence in 2012

p12pais Country of residence in 2012
p12a_llegada Year of arrival
p12a_tramo Time range of arrival
p13 Health insurance
p14 Marital status
p15 Educational level
p15a Currently attending school
p16 Employment status
p16a Occupation type
p16a_otro Other occupation (free text)
p17 Disability indicator
p18 Ethnic group
p19 Language spoken
p20 Language understood
p21m Month of migration
p21a Year of migration
p10pais_grupo Grouped birth country
p11pais_grupo Grouped last residence country
p12pais_grupo Grouped 2012 residence country
escolaridad Years of schooling
p16a_grupo Grouped occupation
region_15r Region code (15-region system)
provincia_15r Province code (15-region system)
comuna_15r Commune code (15-region system)
p10comuna_15r Commune of birth (15-region system)
p11comuna_15r Commune of last residence (15-region system)
p12comuna_15r Commune of residence in 2012 (15-region system)
geocode Geographical identifier
p01 Type of dwelling
p02 Dwelling condition
p03a Material of exterior walls
p03b Material of floor
p03c Material of roof
p04 Number of rooms
p05 Number of bedrooms
cant_hog Number of households in the dwelling
cant_per Number of persons in the dwelling
tipo_hogar Type of household
tipo_operativo Census operation type

Details

The dataset name has been kept as census_chile_2017_df to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the ChileDataAPI package and assists users in identifying its specific characteristics. The suffix df indicates that the dataset is a data frame. The original content has not been modified.

Source

Data taken from the ismtchile package version 2.1.5.

`ChileDataAPI` *ChileDataAPI: Access Chilean Data via APIs and Curated Datasets*

Description

This package provides functions to access data from public RESTful APIs including 'FINDIC API', 'REST Countries API', 'World Bank API', and 'Nager.Date', retrieving real-time or historical data related to Chile such as financial indicators, holidays, international demographic and geopolitical indicators, and more. Additionally, the package includes curated datasets related to Chile, covering topics such as human rights violations during the Pinochet regime, electoral data, census samples, health surveys, seismic events, territorial codes, and environmental measurements..

Details

ChileDataAPI: Access Chilean Data via APIs and Curated Datasets

Access Chilean Data via APIs and Curated Datasets.

Author(s)

Maintainer: Renzo Caceres Rossi <arenzocaceresrossi@gmail.com>

See Also

Useful links:

- https://github.com/lightbluetitan/chiledataapi

`chile_earthquakes_tbl_df` *Chilean Earthquakes Data*

Description

This dataset, chile_earthquakes_tbl_df, is a tibble containing information about significant (perceptible) earthquakes that occurred in Chile from January 1st, 2012 to the present. The data was originally compiled by the Centro Sismológico Nacional (Chile) and was published on Kaggle by Nicolás González Muñoz. The dataset includes 4,018 observations and 5 variables, capturing relevant geophysical characteristics such as the date and time of occurrence, geographic coordinates, depth, and magnitude of each seismic event.

Usage

```
data(chile_earthquakes_tbl_df)
```

Format

A tibble with 4,018 observations and 5 variables:

Date(UTC) Timestamp of the earthquake in UTC (POSIXct)

Latitude Latitude coordinate of the event (numeric)

Longitude Longitude coordinate of the event (numeric)

Depth Depth in kilometers (numeric)

Magnitude Richter magnitude of the earthquake (numeric)

Details

The dataset name has been kept as 'chile_earthquakes_tbl_df' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the ChileDataAPI package and assists users in identifying its specific characteristics. The suffix 'tbl_df' indicates that the dataset is a tibble (a modern data frame). The original content has not been modified in any way. Variable names and values are in English, as originally provided by the source.

Source

Data taken from Kaggle: https://www.kaggle.com/datasets/nicolasgonzalezmunoz/earthquakes-on-chile

`chile_election_2021_df` *Chilean 2021 First Round Presidential Election*

Description

This dataset, chile_election_2021_df, is a data frame containing the results of the first round of the 2021 Chilean presidential elections. It includes vote counts for seven presidential candidates, as well as counts for blank and null votes. Each observation corresponds to an individual ballot box, identified by its unique ID and associated electoral district. Additionally, the dataset includes demographic information on the age distribution of voters for each ballot box, and a logical indicator for mismatches or inconsistencies in the vote counts.

Usage

```
data(chile_election_2021_df)
```

Format

A data frame with 46,606 observations and 21 variables:

REGION Administrative region (character)

ELECTORAL.DISTRICT Electoral district (character)

BALLOT.BOX Unique identifier for the ballot box (character)

C1 Votes for Candidate 1 (integer)

C2 Votes for Candidate 2 (integer)

C3 Votes for Candidate 3 (integer)

C4 Votes for Candidate 4 (integer)

C5 Votes for Candidate 5 (integer)

C6 Votes for Candidate 6 (integer)

C7 Votes for Candidate 7 (integer)

BLANK.VOTES Count of blank votes (integer)

NULL.VOTES Count of null votes (integer)

X18.19 Voters aged 18–19 (integer)

X20.29 Voters aged 20–29 (integer)

X30.39 Voters aged 30–39 (integer)

X40.49 Voters aged 40–49 (integer)

X50.59 Voters aged 50–59 (integer)

X60.69 Voters aged 60–69 (integer)

X70.79 Voters aged 70–79 (integer)

X80. Voters aged 80 and older (integer)

MISMATCH Logical indicator of inconsistency in vote reporting (logical)

Details

The dataset name has been kept as chile_election_2021_df to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the ChileDataAPI package and assists users in identifying its specific characteristics. The suffix df indicates that the dataset is a data frame. The original content has not been modified.

Source

Data taken from the fastei package version 0.0.0.7.

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chile_health_survey_df

Chilean National Health Survey (2016–2017)

Description

This dataset, chile_health_survey_df, is a data frame containing information collected by the Chilean National Health Survey conducted between 2016 and 2017. The objective of the survey was to study the health status of the Chilean population and support health-related public policy design. The dataset includes biometric, behavioral, demographic, and educational variables from 3,211 individuals.

Usage

```
data(chile_health_survey_df)
```

Format

A data frame with 3,211 observations and 12 variables:

pas, pad Systolic and diastolic blood pressure (numeric)

age Age of the respondent (integer)

waist, bmi Waist circumference and body mass index (numeric)

sedentary, smoker, diabetes, depression Health behavior and condition indicators (integer)

male Sex of the respondent (1 = male, 0 = female) (integer)

scholar2, scholar3 Education level indicators (integer)

Details

The dataset name has been kept as 'chile_health_survey_df' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the ChileDataAPI package and assists users in identifying its specific characteristics. The suffix 'df' indicates that the dataset is a data frame. The original content has not been modified in any way.

Source

Data taken from the abms package version 0.2

chile_plebiscite_df *Voting Intentions in the 1988 Chilean Plebiscite*

Description

This dataset, chile_plebiscite_df, is a data frame containing information on voting intentions in the 1988 Chilean plebiscite. The data were collected from a national survey conducted by FLACSO/Chile during April and May of 1988. The dataset consists of 2,700 observations and 8 variables, including demographic details such as region, sex, age, education, and income, as well as voting preferences and support for the status quo. Some observations contain missing values.

Usage

```
data(chile_plebiscite_df)
```

Format

A data frame with 2,700 observations and 8 variables:

region Region of the respondent (factor with 5 levels: "C", "M", "N", "S", ...)

population Population size of the respondent's area (integer)

sex Sex of the respondent (factor: "F", "M")

age Age in years (integer)

education Education level (factor with 3 levels: "P", "PS", "S")

income Income of the respondent (integer)

statusquo Support for the status quo (numeric scale)

vote Intended vote (factor with 4 levels)

Details

The dataset name has been kept as 'chile_plebiscite_df' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the ChileDataAPI package and assists users in identifying its specific characteristics. The suffix 'df' indicates that the dataset is a data frame. The original content has not been modified in any way.

Source

Data taken from the carData package version 3.0-5

`get_chile_bitcoin` *Get Observed Bitcoin Value from the findic.cl API*

Description

This function retrieves the observed value of Bitcoin in US Dollars from the API endpoint: https://findic.cl/api/bitcoin. The data is provided by the Chilean website findic.cl.

Usage

```
get_chile_bitcoin()
```

Details

The values returned by the API include metadata and a time series of daily values. The names of the variables and the values are in Spanish, exactly as provided by the API. For example, the result includes columns named `fecha` (date) and `valor` (value).

The function sends a GET request to the `/api/bitcoin` endpoint. If the request is successful (HTTP 200), it parses the JSON response and extracts the time series data under the key `serie`.

All names and values are kept in Spanish as provided by the API and no translation or modification is applied.

Value

A tibble (data frame) with the following columns:

- `fecha`: Fecha del valor observado (en formato "YYYY-MM-DD").
- `valor`: Valor del bitcoin en dólares estadounidenses (numérico).

Note

Requires internet connection. The function returns the values exactly as provided in Spanish.

See Also

`GET`, `fromJSON`, `as_tibble`

Examples

```
## Not run:
bitcoin_data <- get_chile_bitcoin()
head(bitcoin_data)

## End(Not run)
```

`get_chile_child_mortality` *Get Chile's Under-5 Mortality Rate from World Bank*

Description

Retrieves Chile's under-5 mortality rate, measured as the number of deaths of children under five years of age per 1,000 live births, for the years 2010 to 2022 using the World Bank Open Data API. The indicator used is `SH.DYN.MORT`.

Usage

```
get_chile_child_mortality()
```

Details

This function sends a GET request to the World Bank API. If the API request fails or returns an error status code, the function returns `NULL` with an informative message.

Value

A tibble with the following columns:

- `indicator`: Indicator name (e.g., "Mortality rate, under-5 (per 1,000 live births)")
- `country`: Country name ("Chile")
- `year`: Year of the data (integer)
- `value`: Mortality rate (per 1,000 live births)

Note

Requires internet connection.

Source

World Bank Open Data API: https://data.worldbank.org/indicator/SH.DYN.MORT

See Also

`GET`, `fromJSON`, `as_tibble`

Examples

```
if (interactive()) {
  get_chile_child_mortality()
}
```

`get_chile_copper_pound` *Get Observed Copper Price per Pound from the findic.cl API*

Description

This function retrieves the observed daily value of the copper price per pound ("Libra de Cobre") in U.S. Dollars from the API endpoint: `https://findic.cl/api/libra_cobre`. The data is provided by the Chilean website findic.cl.

Usage

```
get_chile_copper_pound()
```

Details

The values returned by the API include metadata and a time series of daily prices. The names of the variables and the values are in Spanish, exactly as provided by the API. For example, the result includes columns named `fecha` (date) and `valor` (value).

The function sends a GET request to the `/api/libra_cobre` endpoint. If the request is successful (HTTP 200), it parses the JSON response and extracts the time series data under the key `serie`.

All names and values are kept in Spanish as provided by the API and no translation or modification is applied.

Value

A tibble (data frame) with the following columns:

- `fecha`: Fecha del valor observado (in format "YYYY-MM-DD").
- `valor`: Valor de la libra de cobre en dólares estadounidenses (numeric).

Note

Requires internet connection. The function returns the values exactly as provided in Spanish.

See Also

`GET`, `fromJSON`, `as_tibble`

Examples

```
## Not run:
copper_data <- get_chile_copper_pound()
head(copper_data)

## End(Not run)
```

get_chile_cpi *Get Chile's Consumer Price Index (2010 = 100) from World Bank*

Description

Retrieves Chile's Consumer Price Index (CPI), with 2010 as the base year (index = 100), for the years 2010 to 2022 using the World Bank Open Data API. The indicator used is `FP.CPI.TOTL`.

Usage

```
get_chile_cpi()
```

Details

This function sends a GET request to the World Bank API. If the API request fails or returns an error status code, the function returns `NULL` with an informative message.

Value

A tibble with the following columns:

- `indicator`: Indicator name (e.g., "Consumer price index (2010 = 100)")
- `country`: Country name ("Chile")
- `year`: Year of the data (integer)
- `value`: Consumer Price Index (numeric, base year 2010 = 100)

Note

Requires internet connection.

Source

World Bank Open Data API: https://data.worldbank.org/indicator/FP.CPI.TOTL

See Also

GET, fromJSON, as_tibble

Examples

```
if (interactive()) {
  get_chile_cpi()
}
```

`get_chile_dollar` *Get Observed Dollar Exchange Rate from the findic.cl API*

Description

This function retrieves the observed exchange rate ("Dólar observado") in Chilean Pesos from the API endpoint: https://findic.cl/api/dolar. The data is provided by the Chilean website findic.cl.

Usage

```
get_chile_dollar()
```

Details

The values returned by the API include metadata and a time series of daily exchange rates. The names of the variables and the values are in Spanish, exactly as provided by the API. For example, the result includes columns named `fecha` (date) and `valor` (value).

The function sends a GET request to the `/api/dolar` endpoint. If the request is successful (HTTP 200), it parses the JSON response and extracts the time series data under the key `serie`.

All names and values are kept in Spanish as provided by the API and no translation or modification is applied.

Value

A tibble (data frame) with the following columns:

- `fecha`: Fecha del valor observado (en formato "YYYY-MM-DD").
- `valor`: Valor del dólar observado en pesos chilenos (numérico).

Note

Requires internet connection. The function returns the values exactly as provided in Spanish.

See Also

GET, fromJSON, as_tibble

Examples

```
## Not run:
dolar_data <- get_chile_dollar()
head(dolar_data)

## End(Not run)
```

`get_chile_energy_use` *Get Chile's Energy Use (kg of oil equivalent per capita) from World Bank*

Description

Retrieves Chile's energy use per capita, measured in kilograms of oil equivalent, for the years 2010 to 2022 using the World Bank Open Data API. The indicator used is `EG.USE.PCAP.KG.OE`.

Usage

```
get_chile_energy_use()
```

Details

This function sends a GET request to the World Bank API. If the API request fails or returns an error status code, the function returns `NULL` with an informative message.

Value

A tibble with the following columns:

- `indicator`: Indicator name (e.g., "Energy use (kg of oil equivalent per capita)")
- `country`: Country name ("Chile")
- `year`: Year of the data (integer)
- `value`: Energy use in kilograms of oil equivalent per capita

Note

Requires internet connection.

Source

World Bank Open Data API: https://data.worldbank.org/indicator/EG.USE.PCAP.KG.OE

See Also

`GET`, `fromJSON`, `as_tibble`

Examples

```
if (interactive()) {
  get_chile_energy_use()
}
```

get_chile_euro *Get Observed Euro Exchange Rate from the findic.cl API*

Description

This function retrieves the observed exchange rate ("Euro (pesos por euro)") in Chilean Pesos from the API endpoint: https://findic.cl/api/euro. The data is provided by the Chilean website findic.cl.

Usage

```
get_chile_euro()
```

Details

The values returned by the API include metadata and a time series of daily exchange rates. The names of the variables and the values are in Spanish, exactly as provided by the API. For example, the result includes columns named `fecha` (date) and `valor` (value).

The function sends a GET request to the `/api/euro` endpoint. If the request is successful (HTTP 200), it parses the JSON response and extracts the time series data under the key `serie`.

All names and values are kept in Spanish as provided by the API and no translation or modification is applied.

Value

A tibble (data frame) with the following columns:

- `fecha`: Fecha del valor observado (en formato "YYYY-MM-DD").
- `valor`: Valor del euro observado en pesos chilenos (numérico).

Note

Requires internet connection. The function returns the values exactly as provided in Spanish.

See Also

GET, fromJSON, as_tibble

Examples

```
## Not run:
euro_data <- get_chile_euro()
head(euro_data)

## End(Not run)
```

get_chile_gdp *Get Chile's GDP (current US$) from World Bank*

Description

Retrieves Chile's Gross Domestic Product (GDP) in current US dollars for the years 2010 to 2022 using the World Bank Open Data API. The indicator used is `NY.GDP.MKTP.CD`.

Usage

```
get_chile_gdp()
```

Details

This function sends a GET request to the World Bank API. If the API request fails or returns an error status code, the function returns `NULL` with an informative message.

Value

A tibble with the following columns:

- `indicator`: Indicator name (e.g., "GDP (current US$)")
- `country`: Country name ("Chile")
- `year`: Year of the data (integer)
- `value`: GDP in current US dollars
- `value_label`: Formatted GDP with commas (e.g., "1,800,000,000,000")

Note

Requires internet connection.

Source

World Bank Open Data API: https://data.worldbank.org/indicator/NY.GDP.MKTP.CD

See Also

GET, fromJSON, as_tibble, comma

Examples

```
if (interactive()) {
  get_chile_gdp()
}
```

`get_chile_holidays` *Get Official Public Holidays in Chile for a Given Year*

Description

Retrieves the list of official public holidays in Chile for a specific year using the Nager.Date public holidays API. This function returns a tibble containing the date of the holiday, the name in the local language (Spanish), and the English name. It is useful for academic, planning, and data analysis purposes. The information is retrieved directly from the Nager.Date API and reflects the current status of holidays for the requested year. The field names returned are consistent with the API structure.

Usage

```
get_chile_holidays(year)
```

Arguments

`year`	An integer indicating the year (e.g., 2024 or 2025).

Value

A tibble with the following columns:

- `date`: Date of the holiday (class `Date`)
- `local_name`: Holiday name in the local language (Spanish)
- `name`: Holiday name in English

Source

Data obtained from the Nager.Date API: https://date.nager.at/

Examples

```
get_chile_holidays(2024)
get_chile_holidays(2025)
```

`get_chile_hospital_beds` *Get Chile's Hospital Beds (per 1,000 people) from World Bank*

Description

Retrieves Chile's number of hospital beds per 1,000 people for the years 2010 to 2022 using the World Bank Open Data API. The indicator used is `SH.MED.BEDS.ZS`.

Usage

```
get_chile_hospital_beds()
```

Details

This function sends a GET request to the World Bank API. If the API request fails or returns an error status code, the function returns `NULL` with an informative message.

Value

A tibble with the following columns:

- `indicator`: Indicator name (e.g., "Hospital beds (per 1,000 people)")
- `country`: Country name ("Chile")
- `year`: Year of the data (integer)
- `value`: Number of hospital beds per 1,000 people

Note

Requires internet connection.

Source

World Bank Open Data API: https://data.worldbank.org/indicator/SH.MED.BEDS.ZS

See Also

`GET`, `fromJSON`, `as_tibble`

Examples

```
if (interactive()) {
  get_chile_hospital_beds()
}
```

`get_chile_ipsa` *Get IPSA (Índice de Precios Selectivo de Acciones) from the findic.cl API*

Description

This function retrieves the historical values of the IPSA index ("Índice de Precios Selectivo de Acciones") from the API endpoint: `https://findic.cl/api/ipsa`. The data is provided by the Chilean website findic.cl.

Usage

```
get_chile_ipsa()
```

Details

The values returned by the API include metadata and a time series of daily IPSA index values. The names of the variables and the values are in Spanish, exactly as provided by the API. For example, the result includes columns named `fecha` (date) and `valor` (value).

The function sends a GET request to the `/api/ipsa` endpoint. If the request is successful (HTTP 200), it parses the JSON response and extracts the time series data under the key `serie`.

All names and values are kept in Spanish as provided by the API and no translation or modification is applied.

Value

A tibble (data frame) with the following columns:

- `fecha`: Fecha de la observación (in "YYYY-MM-DD" format).
- `valor`: Valor del índice IPSA en puntos (numeric).

Note

Requires internet connection. The function returns the values exactly as provided in Spanish.

See Also

`GET`, `fromJSON`, `as_tibble`

Examples

```
## Not run:
ipsa_data <- get_chile_ipsa()
head(ipsa_data)

## End(Not run)
```

`get_chile_life_expectancy` *Get Chile's Life Expectancy at Birth (Total, Years) from World Bank*

Description

Retrieves Chile's life expectancy at birth (total, years) for the years 2010 to 2022 using the World Bank Open Data API. The indicator used is `SP.DYN.LE00.IN`.

Usage

```
get_chile_life_expectancy()
```

Details

This function sends a GET request to the World Bank API. If the API request fails or returns an error status code, the function returns `NULL` with an informative message.

Value

A tibble with the following columns:

- `indicator`: Indicator name (e.g., "Life expectancy at birth, total (years)")
- `country`: Country name ("Chile")
- `year`: Year of the data (integer)
- `value`: Life expectancy at birth in years

Note

Requires internet connection.

Source

World Bank Open Data API: https://data.worldbank.org/indicator/SP.DYN.LE00.IN

See Also

`GET`, `fromJSON`, `as_tibble`

Examples

```
if (interactive()) {
  get_chile_life_expectancy()
}
```

get_chile_literacy_rate *Get Chile's Adult Literacy Rate*

Description

Retrieves Chile's adult literacy rate (for the years 2010 to 2022 using the World Bank Open Data API. The indicator used is `SE.ADT.LITR.ZS`.

Usage

```
get_chile_literacy_rate()
```

Details

This function sends a GET request to the World Bank API. If the API request fails or returns an error status code, the function returns `NULL` with an informative message.

Value

A tibble with the following columns:

- `indicator`: Indicator name
- `country`: Country name ("Chile")
- `year`: Year of the data (integer)
- `value`: Literacy rate as a percentage

Note

Requires internet connection.

Source

World Bank Open Data API: https://data.worldbank.org/indicator/SE.ADT.LITR.ZS

See Also

GET, fromJSON, as_tibble

Examples

```
literacy_data <- get_chile_literacy_rate()
head(literacy_data)
```

`get_chile_population` *Get Chile's Total Population from World Bank*

Description

Retrieves Chile's total population for the years 2010 to 2022 using the World Bank Open Data API. The indicator used is `SP.POP.TOTL`.

Usage

```
get_chile_population()
```

Details

The function sends a GET request to the World Bank API. If the API request fails or returns an error status code, the function returns `NULL` with an informative message.

Value

A tibble with the following columns:

- `indicator`: Indicator name (e.g., "Population, total")
- `country`: Country name ("Chile")
- `year`: Year of the data (integer)
- `value`: Population as a numeric value
- `value_label`: Formatted population with commas (e.g., "51,000,000")

Note

Requires internet connection. The data is retrieved in real time from the World Bank API.

Source

World Bank Open Data API: https://data.worldbank.org/indicator/SP.POP.TOTL

See Also

GET, fromJSON, as_tibble, comma

Examples

```
if (interactive()) {
  get_chile_population()
}
```

get_chile_uf *Get Unidad de Fomento (UF) from the findic.cl API*

Description

This function retrieves the Unidad de Fomento (UF) daily values in Chilean Pesos from the API endpoint: https://findic.cl/api/uf. The data is provided by the Chilean website findic.cl.

Usage

```
get_chile_uf()
```

Details

The values returned by the API include metadata and a time series of daily UF values. The names of the variables and the values are in Spanish, exactly as provided by the API. For example, the result includes columns named `fecha` (date) and `valor` (value).

The function sends a GET request to the `/api/uf` endpoint. If the request is successful (HTTP 200), it parses the JSON response and extracts the time series data under the key `serie`.

All names and values are kept in Spanish as provided by the API and no translation or modification is applied.

Value

A tibble (data frame) with the following columns:

- `fecha`: Fecha del valor observado (in "YYYY-MM-DD" format).
- `valor`: Valor diario de la UF en pesos chilenos (numeric).

Note

Requires internet connection. The function returns the values exactly as provided in Spanish.

See Also

GET, fromJSON, as_tibble

Examples

```
## Not run:
uf_data <- get_chile_uf()
head(uf_data)

## End(Not run)
```

`get_chile_unemployment` *Get Chile's Unemployment Rate (Total) from World Bank*

Description

Retrieves Chile's total unemployment rate, measured as a percentage of the total labor force, for the years 2010 to 2022 using the World Bank Open Data API. The indicator used is `SL.UEM.TOTL.ZS`.

Usage

```
get_chile_unemployment()
```

Details

This function sends a GET request to the World Bank API. If the API request fails or returns an error status code, the function returns `NULL` with an informative message.

Value

A tibble with the following columns:

- `indicator`: Indicator name (e.g., "Unemployment, total (
- `country`: Country name ("Chile")
- `year`: Year of the data (integer)
- `value`: Unemployment rate as a numeric value (percentage)

Note

Requires internet connection.

Source

World Bank Open Data API: https://data.worldbank.org/indicator/SL.UEM.TOTL.ZS

See Also

`GET`, `fromJSON`, `as_tibble`

Examples

```
if (interactive()) {
  get_chile_unemployment()
}
```

`get_chile_utm` *Get Monthly Tax Unit (UTM) from the findic.cl API*

Description

This function retrieves the historical values of the Unidad Tributaria Mensual (UTM) in Chilean Pesos from the API endpoint: `https://findic.cl/api/utm`. The data is provided by the Chilean website findic.cl.

Usage

```
get_chile_utm()
```

Details

The values returned by the API include metadata and a time series of monthly values. The names of the variables and the values are in Spanish, exactly as provided by the API. For example, the result includes columns named `fecha` (date) and `valor` (value).

The function sends a GET request to the `/api/utm` endpoint. If the request is successful (HTTP 200), it parses the JSON response and extracts the time series data under the key `serie`.

All names and values are kept in Spanish as provided by the API and no translation or modification is applied.

Value

A tibble (data frame) with the following columns:

- `fecha`: Fecha de referencia del valor mensual (in format "YYYY-MM-DD").
- `valor`: Valor mensual de la Unidad Tributaria Mensual (UTM) en pesos chilenos (numeric).

Note

Requires internet connection. The function returns the values exactly as provided in Spanish.

See Also

`GET`, `fromJSON`, `as_tibble`

Examples

```
## Not run:
utm_data <- get_chile_utm()
head(utm_data)

## End(Not run)
```

get_chile_yen *Get Observed Yen Exchange Rate from the findic.cl API*

Description

This function retrieves the observed exchange rate ("Yen (pesos por yen)") in Chilean Pesos from the API endpoint: https://findic.cl/api/yen. The data is provided by the Chilean website findic.cl.

Usage

```
get_chile_yen()
```

Details

The values returned by the API include metadata and a time series of daily exchange rates. The names of the variables and the values are in Spanish, exactly as provided by the API. For example, the result includes columns named `fecha` (date) and `valor` (value).

The function sends a GET request to the `/api/yen` endpoint. If the request is successful (HTTP 200), it parses the JSON response and extracts the time series data under the key `serie`.

All names and values are kept in Spanish as provided by the API and no translation or modification is applied.

Value

A tibble (data frame) with the following columns:

- `fecha`: Fecha del valor observado (en formato "YYYY-MM-DD").
- `valor`: Valor del yen observado en pesos chilenos (numérico).

Note

Requires internet connection. The function returns the values exactly as provided in Spanish.

See Also

GET, fromJSON, as_tibble

Examples

```
## Not run:
yen_data <- get_chile_yen()
head(yen_data)

## End(Not run)
```

`get_country_info_cl` *Get Country Information for Chile*

Description

Retrieves comprehensive country information for Chile from the REST Countries API. This function fetches data including official and common names, geographical information, capital, area, population, and languages.

Usage

```
get_country_info_cl()
```

Details

This function makes a request to the REST Countries API v3.1 endpoint specifically for Chile using full text search. It handles API errors gracefully and returns NULL if the request fails or no data is found.

Value

A tibble with one row containing Chile's country information:

name_common Common name of the country

name_official Official name of the country

region Geographic region

subregion Geographic subregion

capital Capital city(ies)

area Total area in square kilometers

population Total population

languages Languages spoken (comma-separated)

Examples

```
# Get Chile information
cl_info <- get_country_info_cl()
print(cl_info)
```

`malleco_tree_rings_ts` *Average Araucaria Araucana Tree Ring Width*

Description

This dataset, malleco_tree_rings_ts, is a time series object (‘ts‘) containing the average annual tree ring width, measured in millimeters, for Araucaria Araucana trees located in the Malleco region of Chile. The data spans 734 years, from 1242 to 1975, and was originally collected for use in climate and environmental reconstructions. The frequency of the series is annual (one observation per year). The series shows interannual variability in growth and is suitable for time series analysis and dendrochronological studies.

Usage

```
data(malleco_tree_rings_ts)
```

Format

A time series object with 734 annual observations:

Start year 1242

End year 1975

Frequency Annual (1)

Values Average annual ring width in millimeters (numeric)

Details

The dataset name has been kept as 'malleco_tree_rings_ts' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the ChileDataAPI package and assists users in identifying its specific characteristics. The suffix 'ts' indicates that the dataset is a time series object. The original content has not been modified in any way.

Source

Data taken from the LSTS package version 2.1

`pinochet_regime_df` *Human Rights Abuses in the Pinochet Regime (1973–1990)*

Description

This dataset, pinochet_regime_df, is a data frame containing detailed information about human rights violations that occurred in Chile during the military dictatorship of Augusto Pinochet, spanning from 1973 to 1990. The data includes victim-level records such as names, age, gender, affiliation, nature of the violence, methods used, and geographic information when available. It is based on the National Truth and Reconciliation Commission Report (1991, ISBN:9780268016463). The dataset also includes georeferenced locations across multiple levels for incidents where such data could be retrieved.

Usage

```
data(pinochet_regime_df)
```

Format

A data frame with 2,398 observations and 59 variables:

individual_id Victim ID

group_id Group ID for collective incidents

start_date_daily Start date (day precision)

end_date_daily End date (day precision)

start_date_monthly Start date (month precision)

end_date_monthly End date (month precision)

last_name Victim's last name

first_name Victim's first name

minor Indicator if victim was a minor

age Age of the victim

male Indicator if victim was male

occupation Victim's occupation

occupation_detail Detailed occupation description

victim_affiliation Affiliation of the victim

victim_affiliation_detail Detailed affiliation

violence Type of violence experienced

method Method of violence

interrogation Interrogation indicator

torture Torture indicator

mistreatment Mistreatment indicator

targeted Targeting category
press Indicator for press involvement
war_tribunal War tribunal indicator
number_previous_arrests Number of previous arrests
perpetrator_affiliation Affiliation of perpetrator
perpetrator_affiliation_detail Detailed affiliation of perpetrator
nationality Victim's nationality
place_1 First incident location
location_1 First location detail
latitude_1 Latitude of first location
longitude_1 Longitude of first location
exact_coordinates_1 Indicator of coordinate precision (1 = exact)
place_2 Second incident location
location_2 Second location detail
latitude_2 Latitude of second location
longitude_2 Longitude of second location
exact_coordinates_2 Indicator of coordinate precision (2nd)
place_3 Third incident location
location_3 Third location detail
latitude_3 Latitude of third location
longitude_3 Longitude of third location
exact_coordinates_3 Indicator of coordinate precision (3rd)
place_4 Fourth incident location
location_4 Fourth location detail
latitude_4 Latitude of fourth location
longitude_4 Longitude of fourth location
exact_coordinates_4 Indicator of coordinate precision (4th)
place_5 Fifth incident location
location_5 Fifth location detail
latitude_5 Latitude of fifth location
longitude_5 Longitude of fifth location
exact_coordinates_5 Indicator of coordinate precision (5th)
place_6 Sixth incident location
location_6 Sixth location detail
latitude_6 Latitude of sixth location
longitude_6 Longitude of sixth location
exact_coordinates_6 Indicator of coordinate precision (6th)
page Source page in the original report
additional_comments Additional remarks or context

Details

The dataset name has been kept as pinochet_regime_df to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the ChileDataAPI package and assists users in identifying its specific characteristics. The suffix df indicates that the dataset is a data frame. The original content has not been modified.

Source

Data taken from the pinochet package version 0.1.0.

---

territorial_codes_tbl_df

Official Codes for Chilean Communes, Provinces, and Regions

Description

This dataset, territorial_codes_tbl_df, is a tibble containing official codes for communes, provinces, and regions in Chile. The codes were provided by the Chilean government agency SUBDERE. The names of the administrative divisions were converted to ASCII characters to avoid encoding issues. All variable names and data values are in Spanish, as retrieved from the original source.

Usage

```
data(territorial_codes_tbl_df)
```

Format

A tibble with 346 observations and 6 variables:

codigo_comuna, nombre_comuna Official commune code and commune name (character, in Spanish)

codigo_provincia, nombre_provincia Official province code and province name (character, in Spanish)

codigo_region, nombre_region Official region code and region name (character, in Spanish)

Details

The dataset name has been kept as 'territorial_codes_tbl_df' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the ChileDataAPI package and assists users in identifying its specific characteristics. The suffix 'df' indicates that the dataset is a data frame. The original content has not been modified in any way.

Source

Data taken from the chilemapas package version 0.3.0

`view_datasets_ChileDataAPI` *View Available Datasets in ChileDataAPI*

Description

This function lists all datasets available in the 'ChileDataAPI' package. If the 'ChileDataAPI' package is not loaded, it stops and shows an error message. If no datasets are available, it returns a message and an empty vector.

Usage

```
view_datasets_ChileDataAPI()
```

Value

A character vector with the names of the available datasets. If no datasets are found, it returns an empty character vector.

Examples

```
if (requireNamespace("ChileDataAPI", quietly = TRUE)) {
  library(ChileDataAPI)
  view_datasets_ChileDataAPI()
}
```

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