Package: BrazilDataAPI (via r-universe)

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Type Package

Title Access Brazilian Data via APIs and Curated Datasets

Version 0.2.0

Maintainer Renzo Caceres Rossi <arenzocaceresrossi@gmail.com>

Description Provides functions to access data from the 'BrasilAPI', 'REST Countries API', 'Nager.Date API', and 'World Bank API', related to Brazil's postal codes, banks, holidays, company registrations, international country indicators, public holidays information, and economic development data. Additionally, the package includes curated datasets related to Brazil, covering topics such as demographic data (males and females by state and year), river levels, environmental emission factors, film festivals, and yellow fever outbreak records. The package supports research and analysis focused on Brazil by integrating open APIs with high-quality datasets from multiple domains. For more information on the APIs, see: 'BrasilAPI' <https://brasilapi.com.br/>, 'Nager.Date' <https://date.nager.at/Api>, 'World Bank API' <https://datahelpdesk.worldbank.org/knowledgebase/articles/889392>, and 'REST Countries API' <https://restcountries.com/>.

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

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

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`Brasil_females_df` *Brazilian Female Demographics & Mortality (1991-2000)*

Description

This dataset, Brasil_females_df, is a data frame containing population counts and mortality information for females in Brazil, disaggregated by federal states and abridged age groups, for the years 1991 and 2000. The dataset includes 486 observations and 8 variables. Population counts are reported for both years, and deaths are given as average counts over the intercensal period. Age groups follow the pattern 0, 1, 5, ..., 75, with an open age group at 80+. A total of 53 Brazilian states are represented.

Usage

```
data(Brasil_females_df)
```

Format

A data frame with 486 observations and 8 variables:

cod Integer code identifying each federal state

pop1 Population count in 1991 (integer)

pop2 Population count in 2000 (integer)

deaths Average number of deaths during the intercensal period (numeric)

year1 First census year (1991; integer)

year2 Second census year (2000; integer)

age Abridged age group (integer values like 0, 1, 5, ..., 75; open age group at 80)

sex Sex identifier; all values are "f" (character)

Details

The dataset name has been kept as 'Brasil_females_df' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the BrazilDataAPI 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 DDM package version 1.0-0

`Brasil_males_df` *Brazilian Male Demographics & Mortality (1980-1991)*

Description

This dataset, Brasil_males_df, is a data frame containing population counts and mortality information for males in Brazil, disaggregated by federal states and abridged age groups, for the years 1980 and 1991. The dataset includes 486 observations and 8 variables. Population counts are reported for both years, and deaths are given as average counts over the intercensal period. Age groups follow the pattern 0, 1, 5, ..., 75, with an open age group at 80+. A total of 53 Brazilian states are represented.

Usage

```
data(Brasil_males_df)
```

Format

A data frame with 486 observations and 8 variables:

cod Integer code identifying each federal state

pop1 Population count in 1980 (integer)

pop2 Population count in 1991 (integer)

deaths Average number of deaths during the intercensal period (numeric)

year1 First census year (1980; integer)

year2 Second census year (1991; integer)

age Abridged age group (integer values like 0, 1, 5, ..., 75; open age group at 80)

sex Sex identifier; all values are "m" (character)

Details

The dataset name has been kept as 'Brasil_males_df' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the BrazilDataAPI 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 DDM package version 1.0-0

`Brazil_films_df` *Films Shown at Brazilian Film Festivals (2007–2011)*

Description

This dataset, Brazil_films_df, is a data frame containing information on films shown at five different film festivals in Brazil from 2007 to 2011. The dataset includes 25 observations and 6 variables, summarizing the number of films, directors, male and female directors, and regional categories for each year.

Usage

```
data(Brazil_films_df)
```

Format

A data frame with 25 observations and 6 variables:

year Year of the film festival (integer)

regE Festival region (factor with 5 levels)

F Number of films shown (integer)

D Number of directors (integer)

MD Number of male directors (integer)

WD Number of female directors (integer)

Details

The dataset name has been kept as 'Brazil_films_df' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the BrazilDataAPI 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 bpca package version 1.3-6

BrazilDataAPI *BrazilDataAPI: Access Brazilian Data via APIs and Curated Datasets*

Description

This package provides functions to access data from the 'BrasilAPI', 'REST Countries API','Nager.Date API', and 'World Bank API', related to Brazil's postal codes, banks, holidays,company registrations, international country indicators, public holidays information, and economic development data. Additionally, the package includes curated datasets related to Brazil, covering topics such as demographic data,river levels, environmental emission factors, film festivals, and yellow fever outbreak records.

Details

BrazilDataAPI: Access Brazilian Data via APIs and Curated Datasets

Access Brazilian Data via APIs and Curated Datasets.

Author(s)

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

See Also

Useful links:

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

get_brazil_banks *Get List of Banks in Brazil*

Description

This function retrieves the list of all banks in Brazil from the BrasilAPI endpoint: 'https://brasilapi.com.br/api/banks/v1'. The response includes key details such as bank code, name, and ISPB (identificador do sistema de pagamentos).

Usage

```
get_brazil_banks()
```

Value

A tibble (data frame) with the following columns:

- code: Bank code (integer).
- name: Short name of the bank.
- fullName: Full registered name of the bank.
- ispb: ISPB code (Identificador do Sistema de Pagamentos Brasileiros).

Note

Requires internet connection. The function pulls data in real time from BrasilAPI.

See Also

GET, fromJSON, as_tibble

Examples

```
## Not run:
banks <- get_brazil_banks()
head(banks)

## End(Not run)
```

---

get_brazil_cep *Get Address Information by Brazilian CEP (Postal Code)*

Description

This function retrieves detailed address information for a given Brazilian postal code (CEP) using the BrasilAPI endpoint.

Usage

```
get_brazil_cep(cep)
```

Arguments

cep	A valid Brazilian postal code (CEP) with 8 digits (e.g., "89010025").

Details

Example URL format: https://brasilapi.com.br/api/cep/v1/89010025

Replace 89010025 with any valid Brazilian postal code (CEP).

The function sends a GET request to the BrasilAPI CEP endpoint. If the request is successful and the response contains the expected fields, it returns a structured tibble. Otherwise, a message is displayed and NULL is returned.

Value

A data frame (tibble) with the following columns:

- cep: The CEP (postal code).
- state: State abbreviation (e.g., SP, RJ).
- city: City or municipality.

- neighborhood: Neighborhood.
- street: Street name.
- service: Name of the API service used.

Note

Requires an internet connection. Make sure the CEP is correctly formatted (only digits, 8 characters).

See Also

GET, fromJSON, as_tibble

Examples

```
## Not run:
# Look up information for a specific CEP
get_brazil_cep("89010025")

## End(Not run)
```

---

get_brazil_child_mortality

Get Brazil's Under-5 Mortality Rate from World Bank

Description

Retrieves Brazil'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_brazil_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 ("Brazil")
- 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_brazil_child_mortality()
}
```

---

get_brazil_cnpj *Get Company Information by CNPJ (Brazil)*

Description

This function retrieves public company registration data in Brazil by querying the BrasilAPI endpoint.

Usage

```
get_brazil_cnpj(cnpj)
```

Arguments

cnpj	A valid CNPJ number as a string (only digits, no punctuation).

Details

Example URL format: https://brasilapi.com.br/api/cnpj/v1/19131243000197

Replace 19131243000197 with any valid Brazilian CNPJ number.

It returns a tibble with essential information such as the company's legal name, trade name, address, primary activity, and registration status.

The function makes an HTTP GET request to the BrasilAPI CNPJ endpoint and processes the JSON response into a structured tibble. It only returns fields that are essential and informative for the user.

Value

A tibble with selected essential fields:

- `cnpj`: CNPJ identifier.
- `razao_social`: Legal name.
- `nome_fantasia`: Trade name.
- `capital_social`: Registered capital (numeric).
- `data_inicio_atividade`: Start date of activities.
- `cnae_fiscal_descricao`: Main economic activity.
- `natureza_juridica`: Legal nature.
- `descricao_situacao_cadastral`: Registration status.
- `municipio`: City.
- `uf`: State.
- `cep`: Postal code.
- `logradouro`: Address (street).
- `numero`: Address number.
- `bairro`: Neighborhood.

Note

Requires internet connection. The function returns `NULL` if the CNPJ is invalid or not found.

See Also

`GET`, `fromJSON`, `as_tibble`

Examples

```
## Not run:
get_brazil_cnpj("19131243000197")

## End(Not run)
```

`get_brazil_cpi` *Get Brazil's Consumer Price Index (2010 = 100) from World Bank*

Description

Retrieves Brazil'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_brazil_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 ("Brazil")
- `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_brazil_cpi()
}
```

---

get_brazil_energy_use *Get Brazil's Energy Use (kg of oil equivalent per capita) from World Bank*

Description

Retrieves Brazil'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_brazil_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 ("Brazil")
- `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_brazil_energy_use()
}
```

---

get_brazil_gdp *Get Brazil's GDP (current US$) from World Bank*

Description

Retrieves Brazil'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_brazil_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 ("Brazil")
- `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_brazil_gdp()
}
```

---

get_brazil_holidays *Get Official Public Holidays in Brazil for a Given Year*

Description

Retrieves the list of official public holidays in Brazil 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 (Portuguese), 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_brazil_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 (Portuguese)
- `name`: Holiday name in English

Source

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

Examples

```
get_brazil_holidays(2024)
get_brazil_holidays(2025)
```

---

get_brazil_hospital_beds

Get Brazil's Hospital Beds (per 1,000 people) from World Bank

---

Description

Retrieves Brazil'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_brazil_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 ("Brazil")
- `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_brazil_hospital_beds()
}
```

---

get_brazil_life_expectancy

Get Brazil's Life Expectancy at Birth (Total, Years) from World Bank

---

Description

Retrieves Brazil'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_brazil_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 ("Brazil")
- `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_brazil_life_expectancy()
}
```

`get_brazil_literacy_rate` *Get Brazil's Adult Literacy Rate*

Description

Retrieves Brazil'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_brazil_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 ("Brazil")
- `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_brazil_literacy_rate()
head(literacy_data)
```

`get_brazil_municipalities`

Get Municipalities of a Brazilian State from IBGE

Description

This function retrieves a list of municipalities from the Brazilian IBGE API using the state abbreviation (UF). It includes the name of each municipality and its official IBGE code.

Usage

```
get_brazil_municipalities(uf)
```

Arguments

`uf`	A two-letter string representing the Brazilian state abbreviation (e.g., "SP", "RJ", "BA").

Details

The function sends a GET request to the BrasilAPI IBGE endpoint. If the UF (state abbreviation) is invalid or not recognized, the function returns `NULL` with an appropriate message.

Value

A data frame (tibble) with the following columns:

- `nome`: Name of the municipality.
- `codigo_ibge`: Official IBGE code for the municipality (as character).

Note

Requires internet access. Official IBGE codes are widely used for geostatistical analysis and identification of Brazilian municipalities.

See Also

`GET`, `fromJSON`, `as_tibble`

Examples

```
## Not run:
municipalities_sp <- get_brazil_municipalities("SP")
head(municipalities_sp)

## End(Not run)
```

`get_brazil_population` *Get Brazil's Total Population from World Bank*

Description

Retrieves Brazil'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_brazil_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 ("Brazil")
- `year`: Year of the data (integer)
- `value`: Population as a numeric value
- `value_label`: Formatted population with commas (e.g., "210,000,000")

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_brazil_population()
}
```

`get_brazil_rate_name` *Get Specific Brazilian Economic Rate by Name*

Description

This function retrieves the value of a specific Brazilian economic rate (e.g., "CDI", "Selic", "IPCA") from the BrasilAPI endpoint.

Usage

```
get_brazil_rate_name(rate_name)
```

Arguments

`rate_name`	A character string indicating the rate to retrieve. Valid examples include `"CDI"`, `"Selic"`, or `"IPCA"`. Case-insensitive.

Value

A tibble with two columns: `nome` (name of rate) and `valor` (numeric value).

See Also

`get_brazil_rates` to retrieve all rates at once.

Examples

```
## Not run:
get_brazil_rate_name("CDI")
get_brazil_rate_name("Selic")
get_brazil_rate_name("IPCA")

## End(Not run)
```

get_brazil_rates *Get Official Interest Rates and Indexes from Brazil*

Description

This function retrieves official interest rates and indexes from the BrazilAPI endpoint: 'https://brasilapi.com.br/api/taxas/v1'.

Usage

```
get_brazil_rates()
```

Value

A tibble with the following columns:

- `nome`: Name or acronym of the rate/index.
- `valor`: Current value of the rate/index.

See Also

GET, fromJSON, as_tibble

Examples

```
## Not run:
taxas <- get_brazil_rates()
print(taxas)

## End(Not run)
```

get_brazil_unemployment *Get Brazil's Unemployment Rate (Total) from World Bank*

Description

Retrieves Brazil'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_brazil_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 ("Brazil")
- `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_brazil_unemployment()
}
```

---

get_brazil_vehicle_brands

Get Vehicle Brands from BrasilAPI (FIPE Data)

Description

This function retrieves a list of vehicle brands in Brazil using the BrasilAPI endpoint, which provides data sourced from FIPE (Fundação Instituto de Pesquisas Econômicas). The user must specify the type of vehicle: ‘"carros"‘, ‘"motos"‘, or ‘"caminhoes"‘.

Usage

```
get_brazil_vehicle_brands(tipo_veiculo)
```

Arguments

`tipo_veiculo`	A string indicating the type of vehicle. Must be one of ‘"carros"‘, ‘"motos"‘, or ‘"caminhoes"‘.

Details

This function sends a GET request to the BrasilAPI endpoint and parses the list of vehicle brands. If the API returns an error (e.g., invalid vehicle type), the function will return `NULL`.

Value

A tibble (data frame) with the following columns:

- `nome`: Brand name.
- `valor`: FIPE code of the brand.

Note

Requires internet connection. Only supports Brazilian vehicle types defined by BrasilAPI.

See Also

`GET`, `fromJSON`, `as_tibble`

Examples

```
## Not run:
# Retrieve list of car brands
cars <- get_brazil_vehicle_brands("carros")
head(cars)

## End(Not run)
```

`get_country_info_br` *Get Country Information for Brazil*

Description

Retrieves comprehensive country information for Brazil 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_br()
```

Details

This function makes a request to the REST Countries API v3.1 endpoint specifically for Brazil 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 Brazil'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 Brazil information
br_info <- get_country_info_br()
print(br_info)
```

---

manaus_ts *Monthly Average Heights of the Rio Negro at Manaus (1903–1992)*

Description

This dataset, manaus_ts, is a univariate time series of monthly average river heights of the Rio Negro at Manaus. The series contains 1080 observations spanning 90 years, from January 1903 to December 1992. Each value represents the monthly average of the daily stages (heights) of the Rio Negro. Manaus is located 18 km upstream from the confluence of the Rio Negro with the Amazon River, and due to the minimal slope and flatland affluents, the measurements can be considered a good approximation of the water level at the confluence.

Usage

```
data(manaus_ts)
```

Format

A univariate time series of class `ts` with 1080 monthly observations from 1903 to 1992:

values Monthly average river heights (numeric)

Details

The dataset name has been kept as 'manaus_ts' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the BrazilDataAPI 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 boot package version 1.3-31

`sp_emission_factors_df`

Emission Factors from the Environmental Agency of São Paulo (CETESB)

Description

This dataset, sp_emission_factors_df, is a data frame containing emission factors from the Environmental Agency of São Paulo (CETESB), including equivalencies with European (EURO) vehicle emission standards. The dataset includes 288 observations and 10 variables, covering pollutants, vehicle age and type, and classification systems such as Proconve and EURO for both light-duty and heavy-duty vehicles.

Usage

```
data(sp_emission_factors_df)
```

Format

A data frame with 288 observations and 10 variables:

Age Vehicle age (integer)

Year Reference year (integer)

Pollutant Pollutant type (character)

Proconve_LDV Proconve classification for light-duty vehicles (factor)

t_Euro_LDV Temporal equivalence to EURO for light-duty vehicles (factor)

Euro_LDV EURO standard classification for light-duty vehicles (factor)

Proconve_HDV Proconve classification for heavy-duty vehicles (factor)

Euro_HDV EURO standard classification for heavy-duty vehicles (factor)

PC_G Emission factor (numeric)

LT Lifetime or load factor (numeric)

Details

The dataset name has been kept as 'sp_emission_factors_df' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the BrazilDataAPI 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 vein package version 1.1.3

`view_datasets_BrazilDataAPI`

View Available Datasets in BrazilDataAPI

Description

This function lists all datasets available in the 'BrazilDataAPI' package. If the 'BrazilDataAPI' 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_BrazilDataAPI()
```

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("BrazilDataAPI", quietly = TRUE)) {
  library(BrazilDataAPI)
  view_datasets_BrazilDataAPI()
}
```

`Yellow_Fever_list` *Yellow Fever Outbreak in Brazil (Dec 2016 – May 2017)*

Description

This dataset, Yellow_Fever_list, is a list object containing information on the flow of Yellow Fever cases between five Brazilian states during the outbreak period from December 2016 to May 2017. The data include epidemiological statistics such as the number of cases, population, dates of first and last recorded cases, as well as travel-related matrices indicating disease importation and exportation.

Usage

```
data(Yellow_Fever_list)
```

Format

A list with 4 elements:

states A data frame with 5 observations on 5 variables, including location code, population, number of cases, and dates of first and last reported cases

T_D A 5x10 numeric matrix of travel destinations (disease importation probabilities)

T_O A 5x10 numeric matrix of travel origins (disease exportation probabilities)

length_of_stay A named numeric vector of average length of stay per destination

Details

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

Source

Data taken from the epiflows package version 0.2.1

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