Package ‘ipeadatar’
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Type Package
Title API Wrapper for 'Ipeadata'
Version 0.1.0
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Description Allows directly access to the macroeconomic,
financial and regional database maintained by
Brazilian Institute for Applied Economic Research ('Ipea').
This R package uses the 'Ipeadata' API. For more information,
see <http://www.ipeadata.gov.br/>.
Depends R (>= 3.5.0)
License MIT + file LICENSE
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URL http://github.com/gomesleduardo/ipeadatar
BugReports http://github.com/gomesleduardo/ipeadatar/issues
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**available_countries**  
*List with available countries*

**Description**  
Returns a list with available countries from Ipeadata API database.

**Usage**  
```r
available_countries(language = c("en", "br"))
```

**Arguments**

- **language**  
  String specifying the selected language. Language options are English ("en", default) and Brazilian portuguese ("br").

**Value**  
A data frame containing ISO 3 code and name of available countries.

**Examples**

```r
# Available countries (in English)  
all_countries <- available_countries()

# Available countries (in Brazilian portuguese)  
all_countriesBR <- available_countries(language = "br")
```

---

**available_series**  
*List with available series*

**Description**  
Returns a list with available series from Ipeadata API database.

**Usage**  
```r
available_series(language = c("en", "br"))
```

**Arguments**

- **language**  
  String specifying the selected language. Language options are English ("en", default) and Brazilian portuguese ("br").
available_subjects

Value

A data frame containing Ipeadata code, name, theme, source, frequency, last update and activity status of available series.

Note

The original language of the available series’ names were preserved.

Examples

```r
# Available series (in English)
all_series <- available_series()

# Available series (in Brazilian portuguese)
all_seriesBR <- available_series(language = "br")
```

---

**available_subjects**  
*List with available subjects*

**Description**

Returns a list with available subjects from Ipeadata API database.

**Usage**

```r
available_subjects(language = c("en", "br"))
```

**Arguments**

- `language`  
  String specifying the selected language. Language options are English ("en", default) and Brazilian portuguese ("br").

**Value**

A data frame containing code and name of available subjects.

**Examples**

```r
# Available subjects (in English)
all_subjects <- available_subjects()

# Available subjects (in Brazilian portuguese)
all_subjectsBR <- available_subjects(language = "br")
```
available_territories  *List with available territorial divisions*

**Description**

Returns a list with available Brazilian territorial divisions from Ipeadata API database.

**Usage**

```r
available_territories(language = c("en", "br"))
```

**Arguments**

- `language`  
  String specifying the selected language. Language options are English ("en", default) and Brazilian portuguese ("br").

**Value**

A data frame containing unit name, code, name and area (in km2) of Brazilian territorial divisions.

**Examples**

```r
# Available territories (in English)
all_territories <- available_territories()

# Available territories (in Brazilian portuguese)
all_territoriesBR <- available_territories(language = "br")
```

ipeadata  *Returns a database about the requested series*

**Description**

Returns a list with available database about the requested series.

**Usage**

```r
ipeadata(code, language = c("en", "br"), quiet = FALSE)
```
Arguments

- **code**: A character vector with Ipeadata code.
- **language**: String specifying the selected language. Language options are English ("en", default) and Brazilian Portuguese ("br").
- **quiet**: Logical. If FALSE (default), a progress bar is shown.

Value

A data frame containing Ipeadata code, date, value, territorial unit name and country or territorial code of requested series.

Note

The Ipeadata codes may be required by available_series().

References

This R package uses the Ipeadata API. For more information go to [http://www.ipeadata.gov.br/](http://www.ipeadata.gov.br/).

See Also

- available_series, available_territories

Examples

```r
# Data from
# "JPM366_EMIBI366": J.P. Morgan Emerging Markets Bond Index (EMBI+), Brazil
# "SGS366_NASDAQ366": Nasdaq Composite Index - closed
data <- ipeadata(code = c("JPM366_EMIBI366", "SGS366_NASDAQ366"))
# Data from
# "PRECONS12_IPCA12": Extended National Consumer Price Index (IPCA), Brazil
# in Brazilian Portuguese
dataBR <- ipeadata(code = "PRECONS12_IPCA12", language = "br")
# Regional data from
# "CONSUMOTOT": Electric energy consumption, Brazil
dataReg <- ipeadata(code = "CONSUMOTOT")
```
metadata

Returns a metadata about the requested series

Description

Returns a list with metadata information about the requested series.

Usage

```r
metadata(code, language = c("en", "br"), quiet = FALSE)
```

Arguments

- `code` A character vector with Ipeadata code.
- `language` String specifying the selected language. Language options are English ("en", default) and Brazilian portuguese ("br").
- `quiet` Logical. If FALSE (default), a progress bar is shown.

Value

A data frame containing Ipeadata code, name, short comment, last update, theme name, source’s name and full name, source’s URL, frequency, unity, multiplier factor, status, subject code and the country or territorial code of requested series.

Note

The original language of the available series’ names and the comments were preserved. The Ipeadata codes may be required by available_series().

References

This R package uses the Ipeadata API. For more information go to [http://www.ipeadata.gov.br/](http://www.ipeadata.gov.br/).

See Also

available_series, available_subjects, available_territories

Examples

```r
# Metadata about
# "JPM366 EMBI366": J.P. Morgan Emerging Markets Bond Index (EMBI+), Brazil
# "SGS366 NASDAQ366": Nasdaq Composite Index - closed
meta <- metadata(code = c("JPM366 EMBI366", "SGS366 NASDAQ366"))

# Metadata about
# "PRECOS12 IPCA12": Extended National Consumer Price Index (IPCA), Brazil
# in Brazilian portuguese
```
search_series

```r
metaBR <- metadata(code = "PRECONS_IPCA12", language = "br")

# Regional metadata about
# "CONSUMOTOT": Electric energy consumption, Brazil
metaReg <- metadata(code = "CONSUMOTOT")
```

---

**Description**

Returns a list with searched series by terms from Ipeadata API database.

**Usage**

```r
search_series(terms = NULL, fields = c('name'), language = c("en", "br"))
```

**Arguments**

- **terms**: A character vector with search terms.
- **fields**: A character vector with table fields where matches are sought. See 'Details'.
- **language**: String specifying the selected language. Language options are English ("en", default) and Brazilian Portuguese ("br").

**Details**

The fields options are "code", "name", "theme", "source", "freq", "lastupdate" and "status".

**Value**

A data frame containing Ipeadata code, name, theme, source, frequency, last update and activity status of searched series.

**Note**

The original language of the available series' names were preserved.

**Examples**

```r
# Search by 'ICMS' (Brazilian Tax on Circulation of Goods and Services) in 'name'
ICMS_series <- search_series(terms = c('ICMS'), fields = c('name'))

# Search by 'Portugal' in 'name'
Portugal_series <- search_series(terms = c('Portugal'), fields = c('name'))
```
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