Package 'WDI'

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Title World Development Indicators (World Bank)

Description Search, extract and format data from the World Bank's
World Development Indicators.

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LazyData yes

Type Package

LazyLoad yes

Encoding UTF-8

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Depends R (>= 3.1.0)

Imports RJSONIO

Suggests tidyr (>= 0.8.0), testthat

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R topics documented:

WDI–package	*Search, extract, and format data from the World Bank's World Development Indicators*

Description

Search, extract and format data from the World Bank's World Development Indicators

Details

The `WDI` function provides convenient access to the World Bank's WDI download API. For fast searching, the WDI package ships with a local list of available data series. This local list can be updated to the latest version using the `WDIcache` function.

Author(s)

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References

http://www.umich.edu/~varel https://github.com/vincentarelbundock/WDI

WDI	*WDI: World Development Indicators (World Bank)*

Description

Downloads the requested data by using the World Bank's API, parses the resulting XML file, and formats it in long country-year format.

Usage

```
WDI(country = "all", indicator = "NY.GNS.ICTR.GN.ZS", start = NULL,
  end = NULL, extra = FALSE, cache = NULL)
```

Arguments

country	Vector of countries (ISO-2 character codes, e.g. "BR", "US", "CA") for which the data is needed. Using the string "all" instead of individual iso codes pulls data for every available country.
indicator	Character vector of indicators codes. See the WDIsearch() function. If you supply a named vector, the indicators will be automatically renamed: 'c('women_private_sector' = 'BI.PWK.PRVS.FE.ZS')'
start	First year of data. If NULL, the start year is set to 1950.
end	Last year of data. If NULL, the end year is set to the current year.

| extra | TRUE returns extra variables such as region, iso3c code, and incomeLevel |
| cache | NULL (optional) a list created by WDIcache() to be used with the extra=TRUE argument |

Value

Data frame with country-year observations. You can extract a data.frame with indicator names and descriptive labels by inspecting the 'label' attribute of the resulting data.frame: 'attr(dat, 'label')'

Author(s)

Vincent Arel-Bundock <vincent.arel-bundock@umontreal.ca>

Examples

```
WDI(country="all", indicator=c("AG.AGR.TRAC.NO","TM.TAX.TCOM.BC.ZS"),
    start=1990, end=2000)
WDI(country=c("US","BR"), indicator="NY.GNS.ICTR.GN.ZS", start=1999, end=2000,
    extra=TRUE, cache=NULL)

# Rename indicators on the fly
WDI(country = 'CA', indicator = c('women_private_sector' = 'BI.PWK.PRVS.FE.ZS',
                                  'women_public_sector' = 'BI.PWK.PUBS.FE.ZS'))
```

WDIbulk   *Download all the WDI indicators at once.*

Description

Download all the WDI indicators at once.

Usage

```
WDIbulk()
```

Value

Data frame

a list of 6 data frames: Data, Country, Series, Country-Series, Series-Time, FootNote

Author(s)

Vincent Arel-Bundock <vincent.arel-bundock@umontreal.ca>

WDIcache   *Update the list of available WDI indicators*

Description

Download an updated list of available WDI indicators from the World Bank website. Returns a list for use in the `WDIsearch` function.

Usage

```
WDIcache()
```

Value

Series of indicators, sources and descriptions in two lists list

Note

Downloading all series information from the World Bank website can take time. The `WDI` package ships with a local data object with information on all the series available on 2012-06-18. You can update this database by retrieving a new list using `WDIcache`, and then feeding the resulting object to `WDIsearch` via the `cache` argument.

WDIsearch   *Search names and descriptions of available WDI series*

Description

Data frame with series code, name, description, and source for the WDI series which match the given criteria

Usage

```
WDIsearch(string = "gdp", field = "name", short = TRUE,
  cache = NULL)
```

Arguments

string	Character string. Search for this string using `grep` with `ignore.case=TRUE`.
field	Character string. Search this field. Admissible fields: 'indicator', 'name', 'description', 'sourceDatabase', 'sourceOrganization'
short	TRUE: Returns only the indicator's code and name. FALSE: Returns the indicator's code, name, description, and source.
cache	Data list generated by the `WDIcache` function. If omitted, `WDIsearch` will search a local list of series.

Value

Data frame with code, name, source, and description of all series which match the criteria.

Examples

```
WDIsearch(string='gdp', field='name', cache=NULL)
WDIsearch(string='AG.AGR.TRAC.NO', field='indicator', cache=NULL)
```

WDI_data   *World Development Indicators series and country information*

Description

A list of two character matrices.

Usage

```
WDI_data
```

Format

List of 2 data frames

Details

The first character matrix includes a full list of WDI series (updated 2012-06-18):

- id WDI indicator code
- name Short name of the series
- sourceNote Detailed description provided by the source
- source Source database
- sourceOrganization Source organization

The second character matrix includes extra country information (updated 2012-06-18):

- iso3c ISO 3-letter country code
- iso2c ISO 2-letter country code
- country Country name (long English form)
- region Region
- capital Capital
- longitude Longitude
- latitude Latitude
- income Income level as defined by the World Bank
- lending Lending category, as defined by the World Bank

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