

Package ‘oec’

May 11, 2018

Type Package

Title Observatory of Economic Complexity API Wrapper and Utility Program

Version 2.7.8

Date 2018-06-11

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URL <https://CRAN.R-project.org/package=oec>

BugReports <https://github.com/pachamaltese/oec-r/issues>

Description Access The Observatory of Economic Complexity API from R to download international trade data.

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LazyData TRUE

Depends R (>= 3.2)

Imports rlang, magrittr, dplyr, stringr, purrr, curl, jsonlite, readr

RoxygenNote 6.0.1

NeedsCompilation no

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Repository CRAN

Date/Publication 2018-05-11 15:31:35 UTC

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country_codes	<i>Country codes</i>
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Description

A reference to know the country codes to be able to download and import data (e.g. ch1 stands for "Chile" in the OEC's API). This follows the standard ISO-3 country codes.

Usage

```
country_codes
```

Format

A data frame with 263 observations on the following 2 variables.

country Official countries' names spelled according to the United Nations.

country_code Three characters codes to refer to the countries in the OEC's API.

Examples

```
country_codes
```

getdata	<i>Downloads and processes the data from the API</i>
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Description

Returns a tibble containing imports, exports and relevant metrics (e.g. exports growth w/r to last year) for a year as the result of different API calls and data transforming. The API returns data for different trade classifications: (i) SITC (1962-2016); (ii) HS92 (1992-2016); (iii) HS96 (1996-2016); (iv) HS02 (2002-2016); (v) HS07 (2007-2016).

Usage

```
getdata(origin, destination, year, classification, wrapper)
```

Arguments

origin	ISO code for country of origin (e.g. chl for Chile). Run country_codes in case of doubt.
destination	ISO code for country of destination (e.g. chn for China). Run country_codes in case of doubt.
year	Numeric value greater or equal to 1962 and lower of equal to 2016.
classification	Any of the available trade classifications in the OEC (sitc, hs92, hs96, hs02 or hs07). Default set to sitc.
wrapper	Argument used by getdata_batch. Default set to FALSE.

See Also

getdata_batch

Examples

```
## Not run:
# The next examples can take more than 5 seconds to compute, and specially for large economies so
# these are just shown without evaluation according to CRAN rules

# Run `country_codes` to display the full table of countries

# What does Chile export to China?
# year 2015 - SITC (4 characters)
getdata("chl", "chn", 2015)
# or with explicit parameter
getdata("chl", "chn", 2015, "sitc")

# What does Chile export to China?
# year 2015 - HS07 (4 and 6 characters)
getdata("chl", "chn", 2015, "hs07")

## End(Not run)
```

getdata_batch

Convenient wrapper for getdata

Description

Returns a tibble containing imports, exports and relevant metrics (e.g. exports growth w/r to last year) for a range of years as the result of different API calls and data transforming. The API returns data for different trade classifications: (i) SITC (1962-2016); (ii) HS92 (1992-2016); (iii) HS96 (1996-2016); (iv) HS02 (2002-2016); (v) HS07 (2007-2016).

Usage

```
getdata_batch(origin, destination, initial_year, final_year, classification, by)
```

Arguments

origin	ISO code for country of origin (e.g. chl for Chile). Run country_codes in case of doubt.
destination	ISO code for country of destination (e.g. chn for China). Run country_codes in case of doubt.
initial_year	Numeric value greater or equal to 1962 and lower of equal to 2016. This needs to be lower or equal to final_year.
final_year	Numeric value greater or equal to 1962 and lower of equal to 2016. This needs to be greater or equal to initial_year.
classification	Any of the available trade classifications in the OEC (sitc, hs92, hs96, hs02 or hs07). Default set to sitc.
by	Numeric value to define the increment of the sequence of years. Default set to 1.

See Also

getdata

Examples

```
## Not run:
# The next examples can take more than 5 seconds to compute, and specially for large economies so
# these are just shown without evaluation according to CRAN rules

# Run `country_codes` to display the full table of countries

# What does Chile export to China?
# years 2010 to 2015 - SITC (4 characters)
getdata_batch("chl", "chn", 2010, 2015)
# or with explicit parameters
getdata_batch("chl", "chn", 2010, 2015, "sitc", 1)

# What does Chile export to China?
# years 2010 to 2015 - HS07 (4 and 6 characters)
getdata_batch("chl", "chn", 2010, 2015, "hs07")

# What does Chile export to China?
# years 2010 and 2012 - HS07 (4 and 6 characters)
getdata_batch("chl", "chn", 2010, 2012, "hs07", 2)

## End(Not run)
```

hs02

HS02 products

Description

Provides a detail of HS02 codes.

Usage

hs02

Format

A data frame with 6472 observations on the following 5 variables.

product_name Contains the SITC products' names (e.g. horses, bovine, pigs, etc)

id Contains the associated codes of every product (e.g. 0101 means horses)

group_name Contains the SITC groups (e.g. animal products, vegetable products, etc)

group_id Contains the associated codes of every group (e.g. 01 means animal products)

color One colour per group used to create visualizations

Examples

hs02

 hs07

HS07 products

Description

Provides a detail of HS07 codes.

Usage

hs07

Format

A data frame with 6276 observations on the following 5 variables.

product_name Contains the SITC products' names (e.g. horses, bovine, pigs, etc)

id Contains the associated codes of every product (e.g. 0101 means horses)

group_name Contains the SITC groups (e.g. animal products, vegetable products, etc)

group_id Contains the associated codes of every group (e.g. 01 means animal products)

color One colour per group used to create visualizations

Examples

hs07

hs92	<i>HS92 products</i>
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Description

Provides a detail of HS92 codes.

Usage

hs92

Format

A data frame with 6282 observations on the following 5 variables.

product_name Contains the SITC products' names (e.g. horses, bovine, pigs, etc)

id Contains the associated codes of every product (e.g. 0101 means horses)

group_name Contains the SITC groups (e.g. animal products, vegetable products, etc)

group_id Contains the associated codes of every group (e.g. 01 means animal products)

color One colour per group used to create visualizations

Examples

hs92

hs96	<i>HS96 products</i>
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Description

Provides a detail of HS96 codes.

Usage

hs96

Format

A data frame with 6350 observations on the following 5 variables.

product_name Contains the SITC products' names (e.g. horses, bovine, pigs, etc)

id Contains the associated codes of every product (e.g. 0101 means horses)

group_name Contains the SITC groups (e.g. animal products, vegetable products, etc)

group_id Contains the associated codes of every group (e.g. 01 means animal products)

color One colour per group used to create visualizations

Examples

hs96

`sitc`*SITC products*

Description

Provides a detail of SITC codes meaning.

Usage`sitc`**Format**

A data frame with 6472 observations on the following 5 variables.

`product_name` Contains the SITC products' names (e.g. horses, bovine, pigs, etc)

`id` Contains the associated codes of every product (e.g. 0101 means horses)

`group_name` Contains the SITC groups (e.g. animal products, vegetable products, etc)

`group_id` Contains the associated codes of every group (e.g. 10 means animal products)

`color` One colour per group used to create visualizations

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