

Package ‘ecos’

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Title Economic Statistics System of the Bank of Korea

Version 0.1.6

Description API wrapper to download statistical information from the Economic Statistics System (ECOS) of the Bank of Korea
<<https://ecos.bok.or.kr/api/#/>>.

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Encoding UTF-8

LazyData true

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Imports httr (>= 1.4.3), jsonlite (>= 1.7.2), XML (>= 3.99), stringr (>= 1.4.0)

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ecos-package

ecos: Economic Statistics System of the Bank of Korea

Description

API wrapper to download statistical information from the Economic Statistics System (ECOS) of the Bank of Korea <https://ecos.bok.or.kr/api/#/>.

Details

To use this package, you will first need to get your API key from the website <https://ecos.bok.or.kr/api/#/AuthKeyApply>. Once you have your key, you can save it as an environment variable for the current session using the `ecos.setKey` function. Alternatively, you can set it permanently by adding the following line to your `.Renviron` file:

```
ECOS_API_KEY = PASTE YOUR API KEY
```

Any functions that require your API key try to retrieve it via `Sys.getenv("ECOS_API_KEY")` (unless API key is explicitly specified as a function argument).

Author(s)

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calendar

Calendar for the cycle argument

Description

The ecos open API has been revised on 2022.06.01. A calendar was created to respond to any type of date format according to the cycle argument.

Usage

```
calendar
```

Format

A data frame with 73049 rows and 6 variables:

D daily

SM semi-monthly

M monthly

Q quarterly

S semi-annually

A annually

Examples

```
calendar
```

```
ecos.setKey
```

```
Set ECOS API Key
```

Description

Save ECOS API key for the current session. To set it permanently, please add the following line to your .Renviron file:

```
ECOS_API_KEY = YOUR API KEY
```

Usage

```
ecos.setKey(api_key)
```

```
ecos.printKey()
```

Arguments

```
api_key      A string specifying ECOS API key
```

Value

No return value, called to set api key

Examples

```
## Set API Key for the current session
ecos.setKey("your_api_key")
```

```
## Check API key
ecos.printKey()
```

```
keyStatList
```

```
Top 100 statistical indicators
```

Description

Top 100 statistical indicators

Usage

```
keyStatList(format = c("xml", "json"), lang = c("kr", "en"), count = 1000)
```

Arguments

format	A string specifying the file format to process - xml, json
lang	A string specifying the language of result value - kr (Korean), en (English)
count	An integer specifying the number of requests

Details

```
## Example
keyStatList(lang = "en", count = 100)
```

Value

A data.frame object containing queried information

statItemList	<i>Item list of statistics</i>
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Description

Item list of statistics

Usage

```
statItemList(
  stat_code,
  format = c("xml", "json"),
  lang = c("kr", "en"),
  count = 1000
)
```

Arguments

stat_code	A string specifying the statistical table code
format	A string specifying the file format to process - xml, json
lang	A string specifying the language of result value - kr (Korean), en (English)
count	An integer specifying the number of requests

Details

```
## Example
statItemList(lang = "en", count = 100, stat_code = "902Y001")
```

Value

A data.frame object containing queried information

statMeta	<i>Retrieve statistical meta DB</i>
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Description

Retrieve statistical meta DB

Usage

```
statMeta(meta, format = c("xml", "json"), lang = c("kr", "en"), count = 1000)
```

Arguments

meta	A string specifying the name of meta DB to query
format	A string specifying the file format to process - xml, json
lang	A string specifying the language of result value - kr (Korean), en (English)
count	An integer specifying the number of requests

Details

```
## Example  
statMeta(lang = "en", meta = "Economic Sentiment Index")
```

Value

A data.frame object containing queried information

statSearch	<i>Search conditional statistics</i>
------------	--------------------------------------

Description

Search conditional statistics

Usage

```
statSearch(  
  stat_code,  
  item_code1,  
  item_code2 = "?",  
  item_code3 = "?",  
  item_code4 = "?",  
  cycle,  
  start_time,  
  end_time,
```

```
format = c("xml", "json"),
lang = c("kr", "en"),
count
)
```

Arguments

stat_code	A string specifying the statistical table code
item_code1	A string specifying the statistical item 1 code
item_code2	A string specifying the statistical item 2 code
item_code3	A string specifying the statistical item 3 code
item_code4	A string specifying the statistical item 4 code
cycle	A string specifying the cycle (Annual: A, Semi-Annual: S, Quarterly: Q, Monthly: M, Semi-Monthly: SM, Daily: D)
start_time	A string specifying the start date (according to cycle format: 2015, 2015S1, 2015Q1, 201501, 201501S1, 20150101, etc.)
end_time	A string specifying the end date (according to cycle format: 2015, 2015S1, 2015Q1, 201501, 201501S1, 20150101, etc.)
format	A string specifying the file format to process - xml, json
lang	A string specifying the language of result value - kr (Korean), en (English)
count	An integer specifying the number of requests

Details

```
## Example
statSearch(lang = "en", stat_code = "102Y004", item_code1 = "ABA1", cycle =
"M", start_time = "196001", end_time = "201812")
```

Value

A data.frame object containing queried information

statTableList	<i>Table list of statistical tables</i>
---------------	---

Description

Table list of statistical tables

Usage

```
statTableList(format = c("xml", "json"), lang = c("kr", "en"), count = 1000)
```

Arguments

format	A string specifying the file format to process - xml, json
lang	A string specifying the language of result value - kr (Korean), en (English)
count	An integer specifying the number of requests

Details

```
## Example
statTableList(lang = "en", count = 100)
```

Value

A data.frame object containing queried information

statWord	<i>Glossary of Statistical Terms</i>
----------	--------------------------------------

Description

Glossary of Statistical Terms

Usage

```
statWord(word, format = c("xml", "json"), lang = c("kr", "en"), count = 1000)
```

Arguments

word	A string specifying the term to search
format	A string specifying the file format to process - xml, json
lang	A string specifying the language of result value - kr (Korean), en (English)
count	An integer specifying the number of requests

Details

```
## Example
statWord(word = "CPI", lang = "en")
```

Value

A data.frame object containing queried information

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