

Package ‘Quandl’

September 17, 2015

Title API Wrapper for Quandl.com

Version 2.7.0

Date 2015-08-11

Maintainer Raymond McTaggart <raymond@quandl.com>

Description Functions for interacting directly with the Quandl API to offer data in a number of formats usable in R, downloading a zip with all data from a Quandl database, and the ability to search. This R package uses the Quandl API. For more information go to <https://www.quandl.com/docs/api>. For more help on the package itself go to <https://www.quandl.com/help/r>.

Imports httr (>= 0.6.1), zoo, jsonlite (>= 0.9.14)

Suggests testthat (>= 0.10.0), roxygen2, timeSeries

Depends R (>= 2.15.0), xts

License MIT + file LICENSE

URL <https://github.com/quandl/quandl-r>

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

NeedsCompilation no

Author Raymond McTaggart [aut, cre],
Gergely Daroczi [aut],
Clement Leung [aut],
Quandl Inc. [cph]

Repository CRAN

Date/Publication 2015-09-17 22:49:53

R topics documented:

metaData	2
Quandl	3
quandl.api	4
Quandl.api_key	5
Quandl.auth	5

Quandl.database.bulk_download_to_file	6
Quandl.database.bulk_download_url	7
Quandl.dataset.get	8
Quandl.search	9

Index	10
--------------	-----------

metaData	<i>Retrieve metadata from a Quandl series or search results</i>
----------	---

Description

Retrieve metadata from a Quandl series or search results

Usage

```
metaData(x)
```

Arguments

x A Quandl time series object or search results with attached meta data.

Value

Returns a list of meta data about the series or search results.

See Also

[Quandl](#), [Quandl.search](#)

Examples

```
## Not run:
metaData(ts)

## End(Not run)
```

Quandl	<i>Retrieves Data from the Quandl Dataset endpoint and formats</i>
--------	--

Description

Retrieves Data from the Quandl Dataset endpoint and formats

Usage

```
Quandl(code, type = c("raw", "ts", "zoo", "xts", "timeSeries"),
        transform = c("", "diff", "rdiff", "normalize", "cumul", "rdiff_from"),
        collapse = c("", "daily", "weekly", "monthly", "quarterly", "annual"),
        order = c("desc", "asc"), meta = FALSE, force_irregular = FALSE, ...)
```

Arguments

code	Dataset code on Quandl specified as a string or an array of strings.
type	Type of data returned specified as string. Can be 'raw', 'ts', 'zoo', 'xts' or 'timeSeries'.
transform	Apply Quandl API data transformations.
collapse	Collapse frequency of Data.
order	Select if data is given to R in ascending or descending formats. Helpful for the rows parameter.
meta	Adds meta data as an attribute to the returned Data.
force_irregular	When set to TRUE, forces the index of the Data to be of date format yyyy-mm-dd
...	Additional named values that are interpreted as Quandl API parameters. Please see https://www.quandl.com/docs/api#retrieve-data-and-metadata for a full list of parameters.

Details

Set your `api_key` with `Quandl.api_key` function. For instructions on finding your api key go to <https://www.quandl.com/account/api>.

Value

Depending on the type the class is either `data.frame`, `time series`, `xts`, `zoo` or `timeSeries`.

References

This R package uses the Quandl API. For more information go to <https://www.quandl.com/docs/api>. For more help on the package itself go to <https://www.quandl.com/help/r>.

See Also

[Quandl.api_key](#)

Examples

```
## Not run:
quandldata = Quandl("NSE/OIL", collapse="monthly", start_date="2013-01-01", type="ts")
plot(quandldata[,1])

## End(Not run)
```

quandl.api

Executes Quandl API calls

Description

Executes Quandl API calls

Usage

```
quandl.api(path, http = c("GET", "PUT", "POST", "DELETE"), postdata = NULL,
  ...)
```

Arguments

path	Path to api resource.
http	Type of http request sent.
postdata	A character or raw vector that is sent in a body.
...	Named values that are interpreted as Quandl API parameters. Please see https://www.quandl.com/docs/api .

Details

Set your api_key with `Quandl.api_key` function. For instructions on finding your api key go to <https://www.quandl.com/account/api>

Value

Quandl API response.

See Also

[Quandl.api_key](#)

Examples

```
## Not run:
quandldata = quandl.api(path="datasets/NSE/OIL", http="GET")
plot(quandldata[,1])

## End(Not run)
```

Quandl.api_key	<i>Query or set Quandl API key</i>
----------------	------------------------------------

Description

Query or set Quandl API key

Usage

```
Quandl.api_key(api_key)
```

Arguments

api_key Optionally passed parameter to set Quandl api_key.

Value

Returns invisibly the currently set api_key.

Examples

```
## Not run:
Quandl.api_key('foobar')

## End(Not run)
```

Quandl.auth	<i>Query or set Quandl API token</i>
-------------	--------------------------------------

Description

Deprecated. Alias of [Quandl.api_key](#)

Usage

```
Quandl.auth(auth_token)
```

Arguments

auth_token Optionally passed parameter to set Quandl auth_token.

Value

Returns invisibly the currently set auth_token.

See Also

[Quandl](#)

Examples

```
## Not run:  
Quandl.auth('foobar')  
  
## End(Not run)
```

```
Quandl.database.bulk_download_to_file
```

Downloads a zip with all data from a Quandl database

Description

Downloads a zip with all data from a Quandl database

Usage

```
Quandl.database.bulk_download_to_file(database_code, filename, ...)
```

Arguments

database_code	Database code on Quandl specified as a string.
filename	Filename (including path) of file to download.
...	Additional named values that are interpreted as Quandl API parameters. Please see https://www.quandl.com/docs/api#entire-database for a full list of parameters.

Details

Set your api_key with Quandl.api_key function. For instructions on finding your api key go to <https://www.quandl.com/account/api>

Value

The filename of the downloaded file.

See Also

[Quandl.api_key](#)

Examples

```
## Not run:  
Quandl.database.bulk_download_to_file("NSE", "./NSE.zip")  
  
## End(Not run)
```

```
Quandl.database.bulk_download_url  
Returns the bulk download url
```

Description

Returns the bulk download url

Usage

```
Quandl.database.bulk_download_url(database_code, ...)
```

Arguments

database_code Database code on Quandl specified as a string.
... Additional named values that are interpreted as Quandl API parameters. Please see <https://www.quandl.com/docs/api#entire-database> for a full list of parameters.

Details

Set your api_key with Quandl.api_key function. For instructions on finding your api key go to <https://www.quandl.com/account/api>

Value

Returns the download url.

See Also

[Quandl.api_key](#)

Examples

```
## Not run:  
url = Quandl.database.download_url("NSE", download_type="partial")  
  
## End(Not run)
```

Quandl.dataset.get *Retrieves Data from the Quandl Dataset endpoint*

Description

Retrieves Data from the Quandl Dataset endpoint

Usage

```
Quandl.dataset.get(code, params)
```

Arguments

code	Dataset code on Quandl specified as a string.
params	A list of parameters to be passed to the Quandl API. Please see https://www.quandl.com/docs/api#retrieve-data-and-metadata for a full list of parameters.

Details

Set your `api_key` with `Quandl.api_key` function. For instructions on finding your api key go to <https://www.quandl.com/account/api>

Value

Returns a data.frame of the requested data

See Also

[Quandl.api_key](#), [Quandl](#)

Examples

```
## Not run:  
quandldata = Quandl.dataset.get("NSE/OIL", list(rows=5))  
plot(quandldata[,1])  
  
## End(Not run)
```

Quandl.search	<i>Search the Quandl database</i>
---------------	-----------------------------------

Description

Search the Quandl database

Usage

```
Quandl.search(query, silent = FALSE, per_page = 10, ...)
```

Arguments

query	Search terms
silent	Prints the results when FALSE.
per_page	Number of results returned per page.
...	Additional named values that are interpreted as Quandl API parameters.

Details

Set your `api_key` with `Quandl.api_key` function. For instructions on finding your api key go to <https://www.quandl.com/account/api>

For instructions on finding your authentication token go to <https://www.quandl.com/account/api>

Value

Search results returned as a `data.frame`.

See Also

[Quandl.api_key](#)

Examples

```
## Not run:  
search.results <- Quandl.search("oil")  
  
## End(Not run)
```

Index

`metaData`, [2](#)

`Quandl`, [2](#), [3](#), [6](#), [8](#)

`quandl.api`, [4](#)

`Quandl.api_key`, [4](#), [5](#), [5](#), [6–9](#)

`Quandl.auth`, [5](#)

`Quandl.database.bulk_download_to_file`,
[6](#)

`Quandl.database.bulk_download_url`, [7](#)

`Quandl.dataset.get`, [8](#)

`Quandl.search`, [2](#), [9](#)