Package ‘rnbp’

July 28, 2019

Title Wrapper for the National Bank of Poland API

Version 0.1.0

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Description Use the <http://api.nbp.pl/> API through R. Retrieve currency exchange rates and gold prices data published by the National Bank of Poland in form of convenient R objects.

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BugReports https://github.com/szymanskir/rnbp/issues

Encoding UTF-8

LazyData true

Imports curl, httr, jsonlite, utils

Suggests covr, httest, testthat (>= 2.1.0), knitr, rmarkdown, ggplot2

RoxygenNote 6.1.1

VignetteBuilder knitr

NeedsCompilation no

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Repository CRAN

Date/Publication 2019-07-28 11:00:04 UTC

R topics documented:

.goldprice_base_url .................................................. 2
.rates_base_url .......................................................... 2
.send_gold_endpoint_request ........................................... 2
.send_rates_endpoint_request .......................................... 3
.send_tables_endpoint_request ........................................ 3
.tables_base_url ......................................................... 4
.add_json_format ....................................................... 4
.add_path_part ............................................................ 4
### .goldprice_base_url

*Returns the base url for the gold price endpoint.*

**Description**

Returns the base url for the gold price endpoint.

**Usage**

```
goldprice_base_url()
```

### .rates_base_url

*Returns the base url for the rates endpoint.*

**Description**

Returns the base url for the rates endpoint.

**Usage**

```
rates_base_url()
```
Description

Sends a request and parses the gold price endpoint response.

Usage

.send_gold_endpoint_request(request_url)

Arguments

request_url  url to which the request should be sent.

Value

nbp_api_response object with the request content.

Description

Sends a request and parses the rates endpoint response.

Usage

.send_rates_endpoint_request(request_url)

Arguments

request_url  url to which the request should be sent.

Value

nbp_api_response object with the request content.
.send_tables_endpoint_request

Sends a request and parses the tables endpoint response.

Description
Sends a request and parses the tables endpoint response.

Usage
.send_tables_endpoint_request(request_url)

Arguments
request_url  url to which the request should be sent.

Value
nbp_api_response object with the request content.

.tables_base_url

Returns the base url for the tables endpoint.

Description
Returns the base url for the tables endpoint.

Usage
.tables_base_url()

add_json_format

Adds the json formatting option to the passed url request.

Description
Adds the json formatting option to the passed url request.

Usage
.add_json_format(url)

Arguments
url  request url to which the json format option should be added
**add_path_part**

*Value*

url with json format option added

---

**create_request**

*Description*

Creates a request with the given path parts. The json format argument is included by default.

*Usage*

create_request(base_url, path_parts = NULL)

*Arguments*

- **base_url**: base url of the API for which a request should be created
- **path_parts**: that should be added to the base url

*Value*

request url composed of the given base url and specified path parts
**get_current_exchangerate**

*Retrieves the current exchange rate for the given currency.*

**Description**

Retrieves the current exchange rate for the given currency.

**Usage**

```r
get_current_exchangerate(table, currency_code)
```

**Arguments**

- `table` specifies which from which table the exchange rate should be fetched.
- `currency_code` code of the currency for which the exchange rate should be fetched.

**Value**

`nbp_api_response` object containing the current exchange rate.

**See Also**

[http://api.nbp.pl/#kursyWalut](http://api.nbp.pl/#kursyWalut)

Other rates: `get_exchangerate_from_interval`, `get_exchangerate_from`, `get_last_n_exchangerates`, `get_todays_exchangerate`

**Examples**

```r
## Retrieve the current exchange rate for euros
response <- get_current_exchangerate("A", "EUR")

## Retrieve the content
response$content
```
get_current_exchangerate_table

Retrieves the current exchange rate table.

Description

Retrieves the current exchange rate table.

Usage

get_current_exchangerate_table(table)

Arguments

table specifies which table should be fetched.

Value

nbp_api_response object containing the current exchange rate table.

See Also

http://api.nbp.pl/#kursyWalut

Other tables: get_exchangerate_table_from, get_exchangerate_tables_from_interval, get_last_n_exchangerate_tables, get_todays_exchangerate_table

Examples

## Retrieve the current A exchange rate table
response <- get_current_exchangerate_table("A")

## Retrieve the content
response$content
get_current_goldprice

Retrieves the current gold price.

Description
Retrieves the current gold price.

Usage
get_current_goldprice()

Value
nbp_api_response object containing the current gold price.

See Also
http://api.nbp.pl/#cenyZlota
Other goldprice: get_goldprice_from_interval, get_goldprice_from, get_last_n_goldprices, get_todays_goldprice

Examples

```r
## Fetch the current gold price
response <- get_current_goldprice()

## Retrieve the current gold price value
response$content$cena
```

get_exchangerate_from

Retrieves the exchange rate from a specific date.

Description
Retrieves the exchange rate from a specific date.

Usage
get_exchangerate_from(table, currency_code, date)
get_exchangerate_from_interval

Arguments

- **table**: specifies which from which table the exchange rate should be fetched.
- **currency_code**: code of the currency for which the exchange rate should be fetched.
- **date**: date from which the exchange rate should be fetched.

Details

As exchange rates are not published on the weekends fetching values from a weekend date will result in a 404 error. In those cases the function returns an error with an appropriate message.

Value

nbp_api_response object containing the exchange rate from the specified date.

See Also

http://api.nbp.pl/#kursyWalut

Other rates: get_current_exchangerate, get_exchangerate_from_interval, get_last_n_exchangerates, get_todays_exchangerate

Examples

```r
## Fetch the euro exchange rate from a week ago
response <- get_exchangerate_from("A", "EUR", Sys.Date() - 7)

## Preview response content
response@content
```

get_exchangerate_from_interval

Retrieves the exchange rates from a specific interval.

Description

Retrieves the exchange rates from a specific interval.

Usage

get_exchangerate_from_interval(table, currency_code, from, to)
get_exchangerate_tables_from_interval

Arguments

- **table**: specifies which from which table the exchange rate should be fetched.
- **currency_code**: code of the currency for which the exchange rate should be fetched.
- **from**: start day of the interval.
- **to**: end day of the interval.

Details

As exchange rates are not published on the weekends fetching values from an interval containing a weekend will result in a response that omits those days.

Value

nbp_api_response object containing the exchange rates from the specified interval.

See Also

- http://api.nbp.pl/#kursyWalut
- Other rates: get_current_exchangerate, get_exchangerate_from, get_last_n_exchangerates, get_todays_exchangerate

Examples

```r
## Fetch the exchange rate table from the past week
response <- get_exchangerate_tables_from_interval("A", Sys.Date() - 7, Sys.Date())

## Preview response content
response$content
```
get_exchangerate_table_from

Arguments

table specifies which table should be fetched.
from start day of the interval.
to end day of the interval.

Details

As exchange rate tables are not published on the weekends fetching values from an interval containing a weekend will result in a response that omits those days.

Value

nbp_api_response object containing the exchange rates tables from the specified interval.

See Also

http://api.nbp.pl/#kursyWalut

Other tables: get_current_exchangerate_table, get_exchangerate_table_from,
get_last_n_exchangerate_tables, get_todays_exchangerate_table

Examples

```r
## Fetch the exchange rate table from the past week
response <- get_exchangerate_tables_from_interval("A", Sys.Date() - 7, Sys.Date())

## Preview response content
response$content
```

get_exchangerate_table_from

Retrieves the exchange rate table from a specific date.

Description

Retrieves the exchange rate table from a specific date.

Usage

get_exchangerate_table_from(table, date)

Arguments

table specifies which table should be fetched.
date date from which the exchange rate table should be fetched.
get_goldprice_from

Details
As exchange rate tables are not published on the weekends fetching values from a weekend date will result in a 404 error. In those cases the function returns an error with an appropriate message.

Value
nbp_api_response object containing the exchange rate table from the specified date.

See Also
http://api.nbp.pl/#kursyWalut
Other tables: get_current_exchangerate_table, get_exchangerate_tables_from_interval, get_last_n_exchangerate_tables, get_todays_exchangerate_table

Examples

## Fetch the A exchange rate table from a week ago
response <- get_exchangerate_table_from("A", Sys.Date() - 7)

## Preview response content
response$content

------

get_goldprice_from  Retrieves the gold price from a specific date.

Description
Retrieves the gold price from a specific date.

Usage
get_goldprice_from(date)

Arguments
date  date from which the gold price should be fetched.

Details
As gold prices are not published on the weekends fetching values from a weekend date will result in a 404 error. In those cases the function returns an error with an appropriate message.

Value
nbp_api_response object containing the gold price from the specified date.
get_goldprice_from_interval

See Also

http://api.nbp.pl/#cenyZlota

Other goldprice: get_current_goldprice, get_goldprice_from_interval, get_last_n_goldprices, get_todays_goldprice

Examples

```r
## Fetch the gold price from a week ago
response <- get_goldprice_from(Sys.Date() - 7)

## Preview response content
response$content
```

get_goldprice_from_interval

Retrieves the gold prices from a specific interval.

Description

Retrieves the gold prices from a specific interval.

Usage

get_goldprice_from_interval(from, to)

Arguments

from 
start day of the interval.

to 
end day of the interval.

Details

As gold prices are not published on the weekends fetching values from an interval containing a weekend will result in a response that omits those days.

Value

nbp_api_response object containing the gold prices from the specified interval.

See Also

http://api.nbp.pl/#cenyZlota

Other goldprice: get_current_goldprice, get_goldprice_from, get_last_n_goldprices, get_todays_goldprice
get_last_n_exchangerates

Retrieves the last n exchange rates.

Usage

get_last_n_exchangerates(table, currency_code, n)

Arguments

- `table`: specifies which from which table the exchange rate should be fetched.
- `currency_code`: code of the currency for which the exchange rate should be fetched.
- `n`: number of exchange rates to retrieve.

Value

nbp_api_response object containing the last n exchange rates.

See Also

http://api.nbp.pl/#kursyWalut

Other rates: get_current_exchangerate, get_exchangerate_from_interval, get_exchangerate_from, get_todays_exchangerate

Examples

```r
## Fetch the last 3 exchange rates for euros
response <- get_last_n_exchangerates("A", "EUR", 3)
```

```r
## Preview response content
response$content
```
get_last_n_exchangerate_tables

Retrieves the last n exchange rate tables.

Description

Retrieves the last n exchange rate tables.

Usage

get_last_n_exchangerate_tables(table, n)

Arguments

table specifies which table should be fetched.
n number of exchange rate tables to retrieve.

Value

nbp_api_response object containing the last n exchange rate tables.

See Also

http://api.nbp.pl/#kursyWalut

Other tables: get_current_exchangerate_table, get_exchangerate_table_from, get_exchangerate_tables_from_interval, get_todays_exchangerate_table

Examples

```r
## Fetch the last 3 A exchange rate tables
response <- get_last_n_exchangerate_tables("A", 3)

## Preview response content
response$content
```
get_last_n_goldprices

Retrieves the last n gold prices.

Description
Retrieves the last n gold prices.

Usage
get_last_n_goldprices(n)

Arguments
n number of gold prices to retrieve.

Value
nbp_api_response object containing the last n gold prices.

See Also
http://api.nbp.pl/#cenyZlota

Other goldprice: get_current_goldprice, get_goldprice_from_interval, get_goldprice_from, get_todays_goldprice

Examples

## Fetch the last 3 gold price values
response <- get_last_n_goldprices(3)

## Preview response content
response$content
### get_todays_exchangerate

Retrieves the exchange rate that was published today.

**Description**

Retrieves the exchange rate that was published today.

**Usage**

```r
get_todays_exchangerate(table, currency_code)
```

**Arguments**

- `table` specifies which from which table the exchange rate should be fetched.
- `currency_code` code of the currency for which the exchange rate should be fetched.

**Details**

If today’s data is not available the API will return a 404 Not found error. In that case the function will return an error with an appropriate message.

**Value**

`nbp_api_response` object containing today’s exchange rate.

**See Also**

[http://api.nbp.pl/#kursyWalut](http://api.nbp.pl/#kursyWalut)

**Other rates:** `get_current_exchangerate`, `get_exchangerate_from_interval`, `get_exchangerate_from`, `get_last_n_exchangerates`

**Examples**

```r
## Fetch todays A exchange rate table
response <- get_todays_exchangerate("A", "EUR")

## Preview response content
response$response$content
```
get_todays_exchangerate_table

Retrieves the exchange rate table that was published today.

Description
Retrieves the exchange rate table that was published today.

Usage
get_todays_exchangerate_table(table)

Arguments

- table: specifies which table should be fetched.

Details
If today’s data is not available the API will return a 404 Not found error. In that case the function will return an error with an appropriate message.

Value
nbp_api_response object containing today’s exchange rate table.

See Also
http://api.nbp.pl/#kursyWalut

Other tables: get_current_exchangerate_table, get_exchangerate_table_from, get_exchangerate_tables_from_interval, get_last_n_exchangerate_tables

Examples

```r
## Fetch todays A exchange rate table
response <- get_todays_exchangerate_table("A")

## Preview response content
response$content
```
get_todays_goldprice

Retrieves the gold price that was published today.

Description

Retrieves the gold price that was published today.

Usage

get_todays_goldprice()

Details

If today’s data is not available the API will return a 404 Not found error. In that case the function will return an error with an appropriate message.

Value

nbp_api_response object containing today’s gold price.

See Also

http://api.nbp.pl/#cenyZlota

Other goldprice: get_current_goldprice, get_goldprice_from_interval, get_goldprice_from, get_last_n_goldprices

Examples

```r
## Fetch todays gold price
response <- get_todays_goldprice()

## Preview response content
response$content
```
is_count  Checks if an object is a positive integer.

Description
Checks if an object is a positive integer.

Usage
is_count(x)

Arguments
x  object to be tested.

Value
TRUE or FALSE depending on whether its argument is a positive integer or not.

is_date  Checks if an object is a date object.

Description
Checks if an object is a date object.

Usage
is_date(x)

Arguments
x  object to be tested.

Value
TRUE or FALSE depending on whether its arguments is a date object or not.
is_integer

Checks if an object is an integer.

Description

Checks if an object is an integer.

Usage

is_integer(x)

Arguments

x  object to be tested.

Value

TRUE or FALSE depending on whether its argument is an integer or not.

is_nbp_api_response

Checks whether the given object is of the class nbp_api_response.

Description

Checks whether the given object is of the class nbp_api_response.

Usage

is_nbp_api_response(x)

Arguments

x  object to test if it is of the class nbp_api_response

Value

TRUE if the object is of the class nbp_api_response
nbp_api_base_url

Returns the base url of the nbp api.

Description

Returns the base url of the nbp api.

Usage

nbp_api_base_url()