

Package ‘rntp’

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Title Wrapper for the National Bank of Poland API

Version 0.2.2

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Description Use the <<https://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/szymanski/rntp/issues>

Encoding UTF-8

Imports curl, httr, jsonlite, utils

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

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VignetteBuilder knitr

URL <https://github.com/szymanski/rntp>

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`.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()
```

`.send_gold_endpoint_request`

Sends a request and parses the gold price endpoint response.

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.

`.send_rates_endpoint_request`

Sends a request and parses the rates endpoint response.

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

Value

url with json format option added

add_path_part	<i>Adds a path part to the given url</i>
---------------	--

Description

Adds a path part to the given url

Usage

```
add_path_part(url, path_name)
```

Arguments

url	url to which a path part should be added
path_name	path part which should be added to the url

Value

url with the path part added

create_request	<i>Creates a request with the given path parts. The json format argument is included by default.</i>
----------------	--

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

```
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

<https://api.nbp.pl/#kursyWalut>

Other rates: [get_exchangerate_from\(\)](#), [get_exchangerate_from_interval\(\)](#), [get_last_n_exchangerates\(\)](#), [get_todays_exchangerate\(\)](#)

Examples

```
tryCatch(  
  {  
    ## Retrieve the current exchange rate for euros  
    response <- get_current_exchangerate("A", "EUR")  
    ## Retrieve the content  
    response$content  
  },  
  error = function(e) message(e)  
)
```

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

<https://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

```
tryCatch(  
  {  
    ## Retrieve the current A exchange rate table  
    response <- get_current_exchangerate_table("A")  
    ## Retrieve the content  
    response$content  
  },  
  error = function(e) message(e)  
)
```

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

<https://api.nbp.pl/#cenyZlota>

Other goldprice: [get_goldprice_from\(\)](#), [get_goldprice_from_interval\(\)](#), [get_last_n_goldprices\(\)](#), [get_todays_goldprice\(\)](#)

Examples

```
tryCatch(  
  {  
    ## Fetch the current gold price  
    response <- get_current_goldprice()  
    ## Retrieve the current gold price value  
    response$content$cena  
  },  
  error = function(e) message(e)  
)
```

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)
```

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

<https://api.nbp.pl/#kursyWalut>

Other rates: [get_current_exchangerate\(\)](#), [get_exchangerate_from_interval\(\)](#), [get_last_n_exchangerates\(\)](#), [get_todays_exchangerate\(\)](#)

Examples

```
tryCatch(  
  {  
    ## Fetch the euro exchange rate from a week ago  
    response <- get_exchangerate_from("A", "EUR", Sys.Date() - 7)  
    ## Preview response content  
    response$content  
  },  
  error = function(e) message(e)  
)
```

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)
```

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

<https://api.nbp.pl/#kursyWalut>

Other rates: [get_current_exchangerate\(\)](#), [get_exchangerate_from\(\)](#), [get_last_n_exchangerates\(\)](#), [get_todays_exchangerate\(\)](#)

Examples

```
tryCatch(  
  {  
    ## 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  
  },  
  error = function(e) message(e)  
)
```

get_exchangerate_tables_from_interval

Retrieves the exchange rate tables from a specific interval.

Description

Retrieves the exchange rate tables from a specific interval.

Usage

```
get_exchangerate_tables_from_interval(table, from, to)
```

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

<https://api.nbp.pl/#kursyWalut>

Other tables: [get_current_exchangerate_table\(\)](#), [get_exchangerate_table_from\(\)](#), [get_last_n_exchangerate_tables\(\)](#), [get_todays_exchangerate_table\(\)](#)

Examples

```
tryCatch(  
  {  
    ## 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  
  },  
  error = function(e) message(e)  
)
```

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.

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

<https://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

```
tryCatch(  
  {  
    ## Fetch the A exchange rate table from a week ago  
    response <- get_exchangerate_table_from("A", Sys.Date() - 7)  
    ## Preview response content  
    response$content  
  },  
  error = function(e) message(e)  
)
```

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.

See Also

<https://api.nbp.pl/#cenyZlota>

Other goldprice: [get_current_goldprice\(\)](#), [get_goldprice_from_interval\(\)](#), [get_last_n_goldprices\(\)](#), [get_todays_goldprice\(\)](#)

Examples

```
tryCatch(  
  {  
    ## Fetch the gold price from a week ago  
    response <- get_goldprice_from(Sys.Date() - 7)  
    ## Preview response content  
    response$content  
  },  
  error = function(e) message(e)  
)
```

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

<https://api.nbp.pl/#cenyZlota>

Other goldprice: `get_current_goldprice()`, `get_goldprice_from()`, `get_last_n_goldprices()`, `get_todays_goldprice()`

Examples

```
tryCatch(  
  {  
    ## Fetch the gold prices from the past week  
    response <- get_goldprice_from_interval(Sys.Date() - 7, Sys.Date())  
    ## Preview response content  
    response$content  
  },  
  error = function(e) message(e)  
)
```

get_last_n_exchangerates

Retrieves the last n exchange rates.

Description

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

<https://api.nbp.pl/#kursyWalut>

Other rates: [get_current_exchangerate\(\)](#), [get_exchangerate_from\(\)](#), [get_exchangerate_from_interval\(\)](#), [get_todays_exchangerate\(\)](#)

Examples

```
tryCatch(  
  {  
    ## Fetch the last 3 exchange rates for euros  
    response <- get_last_n_exchangerates("A", "EUR", 3)  
    ## Preview response content  
    response$content  
  },  
  error = function(e) message(e)  
)
```

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

<https://api.nbp.pl/#kursyWalut>

Other tables: [get_current_exchangerate_table\(\)](#), [get_exchangerate_table_from\(\)](#), [get_exchangerate_tables_fr](#), [get_todays_exchangerate_table\(\)](#)

Examples

```
tryCatch(  
  {  
    ## Fetch the last 3 A exchange rate tables  
    response <- get_last_n_exchangerate_tables("A", 3)  
    ## Preview response content  
    response$content  
  },  
  error = function(e) message(e)  
)
```

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

<https://api.nbp.pl/#cenyZlota>

Other goldprice: [get_current_goldprice\(\)](#), [get_goldprice_from\(\)](#), [get_goldprice_from_interval\(\)](#), [get_todays_goldprice\(\)](#)

Examples

```
tryCatch(  
  {  
    ## Fetch the last 3 gold price values  
    response <- get_last_n_goldprices(3)  
    ## Preview response content  
    response$content  
  },  
  error = function(e) message(e)  
)
```

`get_todays_exchangerate`*Retrieves the exchange rate that was published today.*

Description

Retrieves the exchange rate that was published today.

Usage

```
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

<https://api.nbp.pl/#kursyWalut>

Other rates: `get_current_exchangerate()`, `get_exchangerate_from()`, `get_exchangerate_from_interval()`, `get_last_n_exchangerates()`

Examples

```
tryCatch(  
  {  
    ## Fetch todays A exchange rate table  
    response <- get_todays_exchangerate("A", "EUR")  
    ## Preview response content  
    response$content  
  },  
  error = function(e) message(e)  
)
```

`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

<https://api.nbp.pl/#kursyWalut>

Other tables: [get_current_exchangerate_table\(\)](#), [get_exchangerate_table_from\(\)](#), [get_exchangerate_tables_from\(\)](#), [get_last_n_exchangerate_tables\(\)](#)

Examples

```
tryCatch(  
  {  
    ## Fetch todays A exchange rate table  
    response <- get_todays_exchangerate_table("A")  
    ## Preview response content  
    response$content  
  },  
  error = function(e) message(e)  
)
```

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

<https://api.nbp.pl/#cenyZlota>

Other goldprice: [get_current_goldprice\(\)](#), [get_goldprice_from\(\)](#), [get_goldprice_from_interval\(\)](#), [get_last_n_goldprices\(\)](#)

Examples

```
tryCatch(  
  {  
    ## Fetch todays gold price  
    response <- get_todays_goldprice()  
    ## Preview response content  
    response$content  
  },  
  error = function(e) message(e)  
)
```

is_count	<i>Checks if an object is a positive integer.</i>
----------	---

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	<i>Checks if an object is a date object.</i>
---------	--

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	<i>Checks if an object is an integer.</i>
------------	---

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	<i>Checks whether the given object is of the class nbp_api_response.</i>
---------------------	--

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	<i>Returns the base url of the nbp api.</i>
------------------	---

Description

Returns the base url of the nbp api.

Usage

```
nbp_api_base_url()
```

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