Package ‘rnbp’

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Title Wrapper for the National Bank of Poland API
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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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R topics documented:

  .goldprice_base_url .................................................. 2
  .rates_base_url ....................................................... 2
  .send_gold_endpoint_request ......................................... 3
  .send_rates_endpoint_request ....................................... 3
  .send_tables_endpoint_request ..................................... 4
  .tables_base_url ..................................................... 4
  add_json_format ....................................................... 4
  add_path_part .......................................................... 5
  create_request ........................................................ 5
  get_current_exchangerate ............................................ 6
.rates_base_url

get_current_exchangerate_table ................................. 7
get_current_goldprice ........................................ 8
get_exchangerate_from ................................. 8
get_exchangerate_from_interval ......................... 9
get_exchangerate_table_from_interval ................. 10
get_exchangerate_table_from .......... 11
get_goldprice_from ....................... 12
get_goldprice_from_interval .............................. 13
get_last_n_exchangerates .................................. 14
get_last_n_exchangerate_tables ......................... 15
get_last_n_goldprices ....................................... 16
get_todays_exchangerate .................................... 17
get_todays_exchangerate_table .............. 18
get_todays_goldprice ...................................... 19
is_count .................................................. 20
is_date .................................................. 20
is_integer ............................................... 21
is_nbp_api_response ...................................... 21
nbp_api_base_url .................................. 21

Index 22

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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()

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.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.
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.

Description
Returns the base url for the tables endpoint.

Usage
.tables_base_url()

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

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_interval(), get_exchangerate_from(), 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
npb_api_response object containing the current gold price.

See Also
https://api.nbp.pl/#cenyZlota
Other goldprice: get_goldprice_from_interval(), get_goldprice_from(), 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)
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

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

Other rates: get_current_exchangerate(), get_exchangerate_from_interval(), get_last_n_exchangerates(), get_todays_exchangerate()

Examples

```r
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)
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

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

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

Examples

```r
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

- [get_current_exchangerate_table()](#kursyWalut)
- [get_exchangerate_table_from()](#kursyWalut)
- [get_last_n_exchangerate_tables()](#kursyWalut)
- [get_todays_exchangerate_table()](#kursyWalut)

Examples

```r
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)
get_goldprice_from

**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](https://api.nbp.pl/#kursyWalut)
- Other tables: `get_current_exchange_rate_table()`, `get_exchange_rate_tables_from_interval()`, `get_last_n_exchange_rate_tables()`, `get_todays_exchange_rate_table()`

**Examples**

```r
tryCatch(
  ## Fetch the A exchange rate table from a week ago
  response <- get_exchange_rate_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.
get_goldprice_from_interval

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.
get_last_n_exchangerates

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>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>table</td>
<td>specifies which from which table the exchange rate should be fetched.</td>
</tr>
<tr>
<td>currency_code</td>
<td>code of the currency for which the exchange rate should be fetched.</td>
</tr>
<tr>
<td>n</td>
<td>number of exchange rates to retrieve.</td>
</tr>
</tbody>
</table>
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_interval(), get_exchangerate_from(), 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.
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_interval(), get_goldprice_from(), get_todays_goldprice()
get_todays_exchangerate

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_interval(), get_exchangerate_from(), get_last_n_exchangerates()
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_interval(), get_last_n_exchangerate_tables()
get_todays_goldprice

Examples

```r
tryCatch({
  ## Fetch todays A exchange rate table
  response <- get_todays_execchangerate_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_interval(), get_goldprice_from(), get_last_n_goldprices()

Examples

```r
tryCatch({
  ## Fetch todays gold price
  response <- get_todays_goldprice()
  ## Preview response content
```
is_count

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

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

**Description**

Checks if an object is an integer.

**Usage**

```python
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

**Description**

Checks whether the given object is of the class `nbp_api_response`.

**Usage**

```python
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

**Description**

Returns the base url of the nbp api.

**Usage**

```python
nbp_api_base_url()
```
Index

* goldprice
  get_current_goldprice, 8
  get_goldprice_from, 12
  get_goldprice_from_interval, 13
  get_last_n_goldprices, 16
  get_todays_goldprice, 19

* rates
  get_current_exchangerate, 6
  get_exchangerate_from, 8
  get_exchangerate_from_interval, 9
  get_last_n_exchangerates, 14
  get_todays_exchangerate, 17

* tables
  get_current_exchangerate_table, 7
  get_exchangerate_table_from, 11
  get_exchangerate_tables_from_interval, 10
  get_last_n_exchangerate_tables, 15
  get_todays_exchangerate_table, 18
  .goldprice_base_url, 2
  .rates_base_url, 2
  .send_gold_endpoint_request, 3
  .send_rates_endpoint_request, 3
  .send_tables_endpoint_request, 4
  .tables_base_url, 4

add_json_format, 4
add_path_part, 5
create_request, 5

get_current_exchangerate, 6, 9, 10, 15, 17
get_current_exchangerate_table, 7, 11, 12, 16, 18
get_current_goldprice, 8, 13, 14, 16, 19
get_exchangerate_from, 6, 8, 10, 15, 17
get_exchangerate_from_interval, 6, 9, 9, 15, 17
get_exchangerate_table_from, 7, 11, 11, 16, 18
get_exchangerate_tables_from_interval, 7, 10, 12, 16, 18
get_goldprice_from, 8, 12, 14, 16, 19
get_goldprice_from_interval, 8, 13, 13, 16, 19
get_last_n_exchangerate_tables, 7, 11, 12, 15, 18
get_last_n_exchangerates, 6, 9, 10, 14, 17
get_last_n_goldprices, 8, 13, 14, 16, 19
get_todays_exchangerate, 6, 9, 10, 15, 17
get_todays_exchangerate_table, 7, 11, 12, 16, 18
get_todays_goldprice, 8, 13, 14, 16, 19

is_count, 20
is_date, 20
is_integer, 21
is_nbp_api_response, 21

nbp_api_base_url, 21