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.
License GPL-3
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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
**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**

```r
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

```r
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_interval(), get_goldprice_from(), get_last_n_goldprices(),
goldprice() 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)
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

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

  Other tables: get_current_exchangerate_table(), get_exchangerate_table_from(), get_last_n_exchangerate_table(), 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)
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

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_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

```r
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**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>from</td>
<td>start day of the interval.</td>
</tr>
<tr>
<td>to</td>
<td>end day of the interval.</td>
</tr>
</tbody>
</table>
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 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.
get_last_n_exchangerate_tables

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

```r
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

```r
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

See Also

https://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
tryCatch(
  ## Fetch the last 3 A exchange rate tables
  response <- get_last_n_exchangerate_tables("A", 3)
  ## Preview response content
  response$product

  error = function(e) message(e)
)
```

---

get_last_n_goldprices  Retrieves the last n gold prices.

Description

Retrieves the last n gold prices.

Usage

goldprice(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

```r
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

```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

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

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

```r
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**

```r
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_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**

```r
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

Checks if an object is a positive integer.

**Description**
Checks if an object is a positive integer.

**Usage**

```r
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**

```r
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**

```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

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**

```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

Returns the base url of the nbp api.

**Description**

Returns the base url of the nbp api.

**Usage**

```python
nbp_api_base_url()
```
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