Package 'rnbp'

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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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add_path_part		

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Description

Returns the base url for the gold price endpoint.

Usage

```
.goldprice_base_url()
```

.goldprice_base_url

.rates_base_url

Returns the base url for the rates endpoint.

Returns the base url for the gold price endpoint.

Description

Returns the base url for the rates endpoint.

```
.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.

4 add_json_format

```
.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 5

Value

url with json format option added

add_path_part

Adds a path part to the given url

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

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

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)
)</pre>
```

```
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)
)</pre>
```

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(),
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)
)</pre>
```

get_exchangerate_from Retrieves the exchange rate from a specific date.

Description

Retrieves the exchange rate from a specific date.

```
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 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)
)</pre>
```

```
get_exchangerate_from_interval
```

Retrieves the exchange rates from a specific interval.

Description

Retrieves the exchange rates from a specific interval.

```
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)
)</pre>
```

```
get_exchangerate_tables_from_interval
```

Retrieves the exchange rate tables from a specific interval.

Description

Retrieves the exchange rate tables from a specific interval.

```
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_taget_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)
)</pre>
```

```
get_exchangerate_table_from
```

Retrieves the exchange rate table from a specific date.

Description

Retrieves the exchange rate table from a specific date.

```
get_exchangerate_table_from(table, date)
```

12 get_goldprice_from

Arguments

table specifies which table should be fetched.

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)
)</pre>
```

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)
)</pre>
```

```
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)
)</pre>
```

```
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_interval(), get_exchangerate_from(),
get_todays_exchangerate()
```

Examples

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

```
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)
)</pre>
```

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()
```

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)
)</pre>
```

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
Otherrates: get_current_exchangerate(), get_exchangerate_from_interval(), get_exchangerate_from(),
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)
)</pre>
```

```
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_frequency get_last_n_exchangerate_tables()
```

get_todays_goldprice 19

Examples

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

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

```
tryCatch({
    ## Fetch todays gold price
    response <- get_todays_goldprice()
    ## Preview response content</pre>
```

is_date

```
response$content
},
error = function(e) message(e)
)
```

is_count

Checks if an object is a positive integer.

Description

Checks if an object is a positive integer.

Usage

```
is_count(x)
```

Arguments

Χ

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

Х

object to be tested.

Value

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

is_integer 21

is_integer

Checks if an object is an integer.

Description

Checks if an object is an integer.

Usage

```
is_integer(x)
```

Arguments

Х

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

Х

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.

```
nbp_api_base_url()
```

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