

# Package: rnbp (via r-universe)

August 26, 2024

**Title** Wrapper for the National Bank of Poland API

**Version** 0.2.1

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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

**BugReports** <https://github.com/szymanski/rnbp/issues>

**Encoding** UTF-8

**Imports** curl, httr, jsonlite, utils

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

**RoxygenNote** 7.1.0

**VignetteBuilder** knitr

**Repository** <https://szymanski.r-universe.dev>

**RemoteUrl** <https://github.com/szymanski/rnbp>

**RemoteRef** HEAD

**RemoteSha** 8c036035cae2470fab461e01475ad08cc2ec4988

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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\\_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**

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)  
)
```

---

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\\_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.

**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\\_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)
)
```



---

`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()`

**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\\_interval\(\)](#), [get\\_goldprice\\_from\(\)](#), [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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