

# Package ‘currencyapi’

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**Title** Client for the 'currencyapi.com' Currency Conversion API

**Version** 0.1.0

**Description** An R client for the 'currencyapi.com' currency conversion API. The API requires registration of an API key. Basic features are free, some require a paid subscription. You can find the full API documentation at <<https://currencyapi.com/docs>> .

**License** MIT + file LICENSE

**Encoding** UTF-8

**URL** <https://currencyapi.com>, <https://currencyapi.com/docs>

**RoxygenNote** 7.2.3

**Imports** httr, jsonlite

**Suggests** knitr, rmarkdown, testthat (>= 3.0.0)

**Config/testthat/edition** 3

**VignetteBuilder** knitr

**NeedsCompilation** no

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**Repository** CRAN

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convert\_exchange\_rates

*Convert a value to a specific range of other currencies from the Currencyapi.com API. Retrieve the latest exchange rate data or for a specific historic date.*

---

### Description

Convert a value to a specific range of other currencies from the Currencyapi.com API. Retrieve the latest exchange rate data or for a specific historic date.

### Usage

```
convert_exchange_rates(
    value,
    date = NULL,
    base_currency = NULL,
    currencies = NULL
)
```

### Arguments

|               |   |
|---------------|---|
| value         | (required) The value you want to convert  |
| date          | Date to retrieve historical rates from (format: 2021-12-31)   |
| base_currency | The base currency for the conversion (e.g., "USD")  |
| currencies    | A list of comma separated currency codes which you want to get (EUR,USD,CAD)<br>By default all available currencies will be shown |

### Value

Returns calculated values for today or any given date for all or a specific set of currencies.

---

currencyapi\_api\_key    *Currencyapi API Key*

---

### Description

**currencyapi.com** requires authentication via an API key. For this package, the API key is saved as an environmental variable. In interactive mode, using `currencyapi_api_key` will require you to enter an API key. Alternatively, you can also use `Sys.setenv(CURRENCYAPI_API_KEY = <key>)` to set the API key manually.

### Usage

```
currencyapi_api_key(force = FALSE)
```

**Arguments**

force                    If TRUE, resets the API key & requires the user to provide a new API key. If FALSE and an API key already exists, the key will be printed to the console. If no key exists, you will be required to enter a key. force. Defaults to FALSE.

**Value**

Returns the set API key that has been stored as an environment variable.

---

get\_api\_status                    *Get the current status of the API.*

---

**Description**

Get the current status of the API.

**Usage**

```
get_api_status()
```

**Value**

Returns your current quota. Requests to this endpoint do not count against your quota or rate limit.

---

get\_date\_range\_historical\_exchange\_rates  
*Get historical exchange rates for a specific date for a single or multiple currencies.*

---

**Description**

Get historical exchange rates for a specific date for a single or multiple currencies.

**Usage**

```
get_date_range_historical_exchange_rates(  
  datetime_start,  
  datetime_end,  
  accuracy = NULL,  
  base_currency = NULL,  
  currencies = NULL  
)
```

**Arguments**

|                |   |
|----------------|---|
| datetime_start | (required) Datetime for the start of your requested range (format: 2021-12-31T23:59:59Z / ISO8601 Datetime)                       |
| datetime_end   | (required) Datetime for the end of your requested range (format: 2021-12-31T23:59:59Z / ISO8601 Datetime)                         |
| accuracy       | The accuracy you want to receive; Possible Values: day, hour, quarter_hour, minute; Default: day For valid time ranges see below  |
| base_currency  | The base currency for the conversion (e.g., "USD")  |
| currencies     | A list of comma seperated currency codes which you want to get (EUR,USD,CAD)<br>By default all available currencies will be shown |

**Value**

Returns exchange rates for a given time range. Generally, we provide data going back to 1999.

---

get\_historical\_exchange\_rates

*Get historical exchange rates for a specific date for a single or multiple currencies.*

---

**Description**

Get historical exchange rates for a specific date for a single or multiple currencies.

**Usage**

```
get_historical_exchange_rates(date, base_currency = NULL, currencies = NULL)
```

**Arguments**

|               |   |
|---------------|---|
| date          | (required) Date to retrieve historical rates from (format: 2021-12-31)  |
| base_currency | The base currency for the conversion (e.g., "USD")  |
| currencies    | A list of comma seperated currency codes which you want to get (EUR,USD,CAD)<br>By default all available currencies will be shown |

**Value**

Returns exchange rates for a given time range. Generally, we provide data going back to 1999.

---

`get_latest_exchange_rates`

*Get exchange rate from the Currencyapi.com API*

---

**Description**

Get exchange rate from the Currencyapi.com API

**Usage**

`get_latest_exchange_rates(base_currency = NULL)`

**Arguments**

`base_currency` The base currency for the conversion (e.g., "USD")

**Value**

Returns the latest currency exchange rates.

---

`get_supported_currencies`

*Get the current status of the API.*

---

**Description**

Get the current status of the API.

**Usage**

`get_supported_currencies(currencies = NULL)`

**Arguments**

`currencies` (required) A list of comma seperated currency codes which you want to get (EUR,USD,CAD) By default all available currencies will be shown

**Value**

Returns all our supported currencies.

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