**Quick Start**

https://api.metalpriceapi.com/v1/**latest?api\_key=[API\_KEY]**

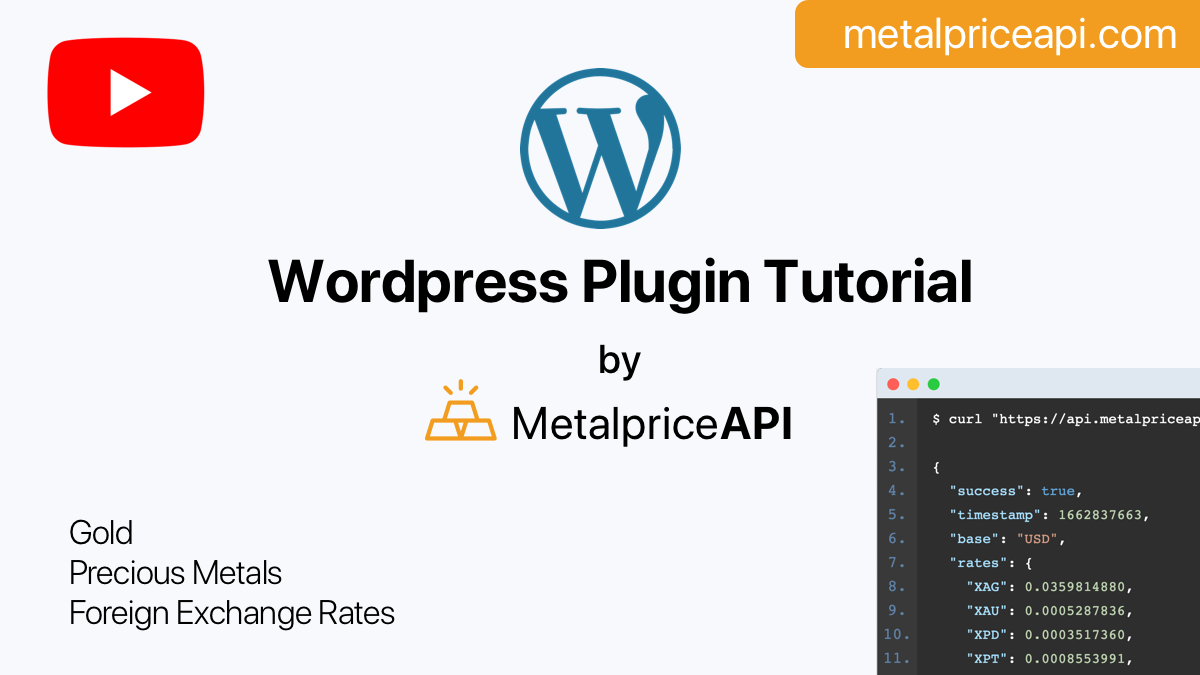
**MetalpriceAPI**

MetalpriceAPI provides a simple to use JSON-based REST API for live and historical precious metals and foreign exchange (forex) rates in 150+ world currencies. We provide affordable pricing, which makes our API perfect for businesses of any size including startups, online businesses, to large companies in need of live and/or historical financial data.  
  
Our API can be deployed to power financial departments, mobile applications, and back-office systems around the world just to name a few use cases.

[List of supported symbols](https://metalpriceapi.com/currencies)

**Video Tutorials**

[](https://www.youtube.com/watch?v=unDZPMuXoPs)

[](https://www.youtube.com/watch?v=ykpHERqO_gM)

**Definitions**

| **Definition** | **Description** |
| --- | --- |
| **API Key** | Uniquely assigned key to each API account to authenticate interactions with the API. |
| **Symbol** | Three-letter currency code or metal code of a given currency. |
| **Base Currency** | The currency to which exchange rates are relative to. |
| **Quote Currency** | The currency an amount is converted to. |

**Metal Units**

All precious metal rates are expressed in **per troy ounce**. All other metals are expressed in **per ounce**. We offer carat, grams, kilograms responses for any paid plans.

[See more](https://metalpriceapi.com/currencies)

**Live Rate Delay**

Live exchange rate data is delayed based on your subscription plan.

| **Subscription Plan** | **Delay** |
| --- | --- |
| **Free** | Daily |
| **Basic** | 10 minutes |
| **Professional** | 60 seconds |
| **Business** | 30 seconds |

**API Key**

The MetalpriceAPI uses API keys to authenticate requests. You can view and manage your API key in the [dashboard.](https://metalpriceapi.com/dashboard)

Please ensure to keep your API Key private as each request made with your API Key counts towards your account's plan limit.

To make an successful request, you must pass in your API Key into every request

We provide two ways to pass in your API Key for every request. Method one is to append your API Key to the request url. Method two is to pass in the API Key via the request header.

Method 1:

https://api.metalpriceapi.com/v1/latest?api\_key=API\_KEY

Method 2:

curl https://api.metalpriceapi.com/v1/latest \

-H 'X-API-KEY: YOUR\_API\_KEY' \

-H 'Content-Type: application/json'

**API Quota**

To determine your current request quota, you can take a look at the response header after a request.

**Response Headers**

| **Key** | **Description** |
| --- | --- |
| **X-API-CURRENT** | Number of requests consumed for the month. |
| **X-API-QUOTA** | API quota limit for the month based on your account plan. |

**API Endpoints**

We offer 7 customizable endpoints, all which provides you access to different kinds of data. Below you will find a short summary of all available endpoints. Detailed explaination of any of the endpoints below will be provided in [API Features.](https://metalpriceapi.com/documentation#d)

// "symbols" - get list of all supported currencies

https://api.metalpriceapi.com/v1/symbols

// "latest" - get real-time exchange rate data for all available/specific currencies

https://api.metalpriceapi.com/v1/latest

// "historical" - get historical rates for a specific day

https://api.metalpriceapi.com/v1/YYYY-MM-DD

// "convert" - convert one currency to another based on real-time or historic exchange rate data

https://api.metalpriceapi.com/v1/convert?from=USD&to=XAU&amount=100

// "timeframe" - request exchange rates for a specific period of time

https://api.metalpriceapi.com/v1/timeframe?start\_date=2021-01-01&end\_date=2021-05-01

// "change" - request any currency change parameters (margin, percentage)

https://api.metalpriceapi.com/v1/change?base=XAU&start\_date=2021-01-01&end\_date=2021-05-01

// "carat" - request gold prices by Carat

https://api.metalpriceapi.com/v1/carat

**API Error Codes**

If your query fails, the API will return a 3-digit error-code and a plain text "info" property.

**Example Error**

{

"success": false,

"error": {

"code": 104,

"info": "Your monthly usage limit has been reached. Please upgrade your subscription plan."

}

}

**Common API Errors**

| **Error Code** | **Description** |
| --- | --- |
| **404** | User requested a non-existent API function |
| **101** | User did not supply an API Key |
| **102** | User did not supply an access key or supplied an invalid access key |
| **103** | The user's account is not active. User will be prompted to get in touch with Customer Support |
| **104** | Too Many Requests |
| **105** | User has reached or exceeded his subscription plan's monthly API request allowance |
| **201** | User entered an invalid Base Currency [ latest, historical, timeframe, change ] |
| **202** | User entered an invalid from Currency [ convert ] |
| **203** | User entered invalid to currency [ convert ] |
| **204** | User entered invalid amount [ convert ] |
| **205** | User entered invalid date [ historical, convert, timeframe, change ] |
| **206** | Invalid timeframe [ timeframe, change ] |
| **207** | Timeframe exceeded 365 days [ timeframe ] |
| **300** | The user's query did not return any results [ latest, historical, convert, timeframe, change ] |

**CORS (Cross-Origin Resource Sharing)**

MetalpriceAPI supports Access-Control (CORS) headers. This means you will be able to use our API via Cross-Origin HTTPS Requests. [Learn more.](https://developer.mozilla.org/en-US/docs/Web/HTTP/CORS)

**Additional Resources**

|  |  |
| --- | --- |
| **MetalpriceAPI Postman API Project** | [See more](https://www.postman.com/metalpriceapi/workspace/team-workspace/collection/18969551-ea5e1fba-c105-48e3-a357-ab59932ca28f) |

**Supported Symbols**

This endpoint is used to get the list of the most up-to-date supported symbols. Learn more [here.](https://metalpriceapi.com/currencies)

**Example API Request**

https://api.metalpriceapi.com/v1/**symbols**

?api\_key=[API\_KEY]

**Request Parameters**

| **Parameter** | **Description** |
| --- | --- |
| **api\_key** | **[Required]** Your API Key. [More details](https://metalpriceapi.com/documentation). |

**Example API Response**

{

"success": true,

"symbols": {

"AED": "UAE Dirham",

"AFN": "Afghan Afghani",

"ALL": "Albanian Lek",

...

}

}

**Response Attributes**

| **Attribute** | **Description** |
| --- | --- |
| **success** | Returns **true** or **false** depending if the API Request succeeded. If **false**, refer to [API Errors](https://metalpriceapi.com/documentation). |
| **symbols** | Key is supported currency, value is description of currency. |

**Live Rates**

This endpoint will return real-time exchange rate data (delayed) depending on your [subscription plan](https://metalpriceapi.com/documentation#api_delay).

**Example API Request**

https://api.metalpriceapi.com/v1/**latest**

?api\_key=[API\_KEY]

&base=USD

&currencies=EUR,XAU,XAG

**Request Parameters**

| **Parameter** | **Description** |
| --- | --- |
| **api\_key** | **[Required]** Your API Key. [More details](https://metalpriceapi.com/documentation). |
| **base** | [optional] Specify a base currency. Base Currency will default to USD if this parameter is not defined. |
| **currencies** | [optional] Specify a comma-separated list of currency codes to limit API responses to specified currencies. If this parameter is not defined, the API will return all supported currencies. |
| **unit** | [optional] **(Paid plan)** Specify **troy\_oz** or **gram** or **kilogram**. If not defined, the API will return metals in troy ounce. |

**Example API Response**

{

"success": true,

"base": "USD",

"timestamp": 1625609377,

"rates": {

"EUR": 0.8255334,

"XAG": 0.03602543,

"XAU": 0.00053853,

"USDEUR": 1.211338027,

"USDXAG": 27.75816972,

"USDXAU": 1856.906765

}

}

In the example API response, that means:  
**1 USD (Base) = 0.8255334 EUR (Quote)**  
**1 USD (Base) = 0.03602543 Ounce of XAG (Quote)**  
**1 USD (Base) = 0.00053853 Ounce of XAU (Quote)**

You can also express the reciprocal:  
**1/0.8255334 EUR = 1.211 USD (Base) <=> €1 = $1.211**  
**1/0.03602543 XAG = 27.758 USD (Base) <=> 1 Ounce of XAU (Silver) = $27.758**  
**1/0.00053853 XAU = 1856.906 USD (Base) <=> 1 Ounce of XAU (Gold) = $1856.906**

**Response Attributes**

| **Attribute** | **Description** |
| --- | --- |
| **success** | Returns **true** or **false** depending if the API Request succeeded. If **false**, refer to [API Errors](https://metalpriceapi.com/documentation). |
| **base** | Returns base currency used for the request. |
| **timestamp** | Returns the UNIX timestamp the given exchange rates were collected. |
| **rates** | Returns exchange rate data for the currencies requested. |

**Historical Rates**

This endpoint will return historical exchange rate data. The previous day's historical rates become available each day at 00:05 AM GMT. Use format YYYY-MM-DD or yesterday for the base url.

[Year-Month-Day]

**Example API Request**

https://api.metalpriceapi.com/v1/**2021-03-24**

?api\_key=[API\_KEY]

&base=USD

&currencies=EUR,XAU,XAG

https://api.metalpriceapi.com/v1/**yesterday**

?api\_key=[API\_KEY]

&base=USD

&currencies=EUR,XAU,XAG

**Request Parameters**

| **Parameter** | **Description** |
| --- | --- |
| **api\_key** | **[Required]** Your API Key. [More details](https://metalpriceapi.com/documentation). |
| **base** | [optional] Specify a base currency. Base Currency will default to USD if this parameter is not defined. |
| **currencies** | [optional] Specify a comma-separated list of currency codes to limit API responses to specified currencies. If this parameter is not defined, the API will return all supported currencies. |
| **unit** | [optional] **(Paid plan)** Specify **troy\_oz** or **gram** or **kilogram**. If not defined, the API will return metals in troy ounce. |

**Example API Response**

{

"success": true,

"base": "USD",

"timestamp": 1616558399,

"rates": {

"EUR": 0.8255334,

"XAG": 0.03602543,

"XAU": 0.00053853,

"USDEUR": 1.211338027,

"USDXAG": 27.75816972,

"USDXAU": 1856.906765

}

}

In the example API response, that means:  
**1 USD (Base) = 0.8255334 EUR (Quote)**  
**1 USD (Base) = 0.03602543 Ounce of XAG (Quote)**  
**1 USD (Base) = 0.00053853 Ounce of XAU (Quote)**

You can also express the reciprocal:  
**1/0.8255334 EUR = 1.211 USD (Base) <=> €1 = $1.211**  
**1/0.03602543 XAG = 27.758 USD (Base) <=> 1 Ounce of XAU (Silver) = $27.758**  
**1/0.00053853 XAU = 1856.906 USD (Base) <=> 1 Ounce of XAU (Gold) = $1856.906**

**Response Attributes**

| **Attribute** | **Description** |
| --- | --- |
| **success** | Returns **true** or **false** depending if the API Request succeeded. If **false**, refer to [API Errors](https://metalpriceapi.com/documentation). |
| **base** | Returns base currency used for the request. |
| **timestamp** | Returns the UNIX timestamp the given exchange rates were collected. |
| **rates** | Returns exchange rate data for the currencies requested. |

**Currency Convert**

This endpoint is used to convert any amount from one currency to another.

**Example API Request**

https://api.metalpriceapi.com/v1/**convert**

?api\_key=[API\_KEY]

&from=USD

&to=XAU

&amount=100

&date=2021-04-23

**Request Parameters**

| **Parameter** | **Description** |
| --- | --- |
| **api\_key** | **[Required]** Your API Key. [More details](https://metalpriceapi.com/documentation). |
| **from** | [optional] Specify currency you would like to convert from. Base Currency will default to USD if this parameter is not defined. |
| **to** | **[Required]** Specify currency you would like to convert to. |
| **amount** | **[Required]** The amount to convert. |
| **date** | [optional] Specify date to use historical midpoint value for conversion. Otherwise, it will use live exchange rate date with delay specified based on your subscription plan. |
| **unit** | [optional] **(Paid plan)** Specify **troy\_oz** or **gram** or **kilogram**. If not defined, the API will return metals in troy ounce. |

**Example API Response**

{

"success": true,

"query": {

"from": "USD",

"to": "XAU",

"amount": 100

},

"info": {

"quote": 0.0005628,

"timestamp": 1619150400

},

"result": 0.05628031

}

**Response Attributes**

| **Attribute** | **Description** |
| --- | --- |
| **success** | Returns **true** or **false** depending if the API Request succeeded. If **false**, refer to [API Errors](https://metalpriceapi.com/documentation). |
| **query -> from** | Returns currency converted from used for the request. |
| **query -> to** | Returns currency converted to used for the request. |
| **query -> amount** | Returns amount to convert. |
| **info -> quote** | Returns the exchange rate used for the conversion. |
| **info -> timestamp** | Returns the UNIX timestamp the given exchange rates were collected. |
| **result** | Returns conversion result. |

**Timeframe Query**

This endpoint is used to get historical rates for a specified time period (max range: 365 days).

**Example API Request**

https://api.metalpriceapi.com/v1/**timeframe**

?api\_key=[API\_KEY]

&start\_date=2021-04-22

&end\_date=2021-04-23

&base=USD

&currencies=EUR,XAU,XAG

**Request Parameters**

| **Parameter** | **Description** |
| --- | --- |
| **api\_key** | **[Required]** Your API Key. [More details](https://metalpriceapi.com/documentation). |
| **start\_date** | **[Required]** Specify the start date of your timeframe. |
| **end\_date** | **[Required]** Specify the end date of your timeframe. |
| **base** | [optional] Specify a base currency. Base Currency will default to USD if this parameter is not defined. |
| **currencies** | [optional] Specify a comma-separated list of currency codes to limit API responses to specified currencies. If this parameter is not defined, the API will return all supported currencies. |
| **unit** | [optional] **(Paid plan)** Specify **troy\_oz** or **gram** or **kilogram**. If not defined, the API will return metals in troy ounce. |

**Example API Response**

{

"success": true,

"base": "USD",

"start\_date": "2021-04-22",

"end\_date": "2021-04-23",

"rates": {

"2021-04-22": {

"EUR": 0.83233837,

"XAG": 0.03825732,

"XAU": 0.00056078,

"USDEUR": 1.20143446,

"USDXAG": 26.1387886,

"USDXAU": 1783.2305

},

"2021-04-23": {

"EUR": 0.82657397,

"XAG": 0.03846131,

"XAU": 0.0005628,

"USDEUR": 1.209813079,

"USDXAG": 26.00015444,

"USDXAU": 1776.830135

},

}

**Response Attributes**

| **Attribute** | **Description** |
| --- | --- |
| **success** | Returns **true** or **false** depending if the API Request succeeded. If **false**, refer to [API Errors](https://metalpriceapi.com/documentation). |
| **base** | Returns base currency used for the request. |
| **start\_date** | Returns start date of your timeframe for the request. |
| **end\_date** | Returns end date of your timeframe for the request. |
| **rates** | Returns exchange rate data for the currencies requested. |

**Change Query**

This endpoint is used to request the change (percentage) of one of more currencies, relative to a base currency with a specific time-frame (optional).

The API will return change values of the specified start\_date and end\_date.

**Example API Request**

https://api.metalpriceapi.com/v1/**change**

?api\_key=[API\_KEY]

&start\_date=2021-04-22

&end\_date=2021-04-23

&base=USD

&currencies=XAU

**Request Parameters**

| **Parameter** | **Description** |
| --- | --- |
| **api\_key** | **[Required]** Your API Key. [More details](https://metalpriceapi.com/documentation). |
| **start\_date** | **[Required]** Specify the start date of your timeframe. |
| **end\_date** | **[Required]** Specify the end date of your timeframe. |
| **base** | [optional] Specify a base currency. Base Currency will default to USD if this parameter is not defined. |
| **currencies** | [optional] Specify a comma-separated list of currency codes to limit API responses to specified currencies. If this parameter is not defined, the API will return all supported currencies. |
| **date\_type** | [optional] Specify "**yesterday**", "**week**", "**month**", or "**year**" to retrieve the rate change for the corresponding time period. If provided, this parameter overrides "start\_date" and "end\_date". |

**Example API Response**

{

"success": true,

"base": "USD",

"start\_date": "2021-04-20",

"end\_date": "2021-04-21",

"rates": {

"XAU": {

"start\_rate": 0.00059101,

"end\_rate": 0.00059256,

"change": 0.00000155,

"change\_pct": 0.2623

}

}

**Response Attributes**

| **Attribute** | **Description** |
| --- | --- |
| **success** | Returns **true** or **false** depending if the API Request succeeded. If **false**, refer to [API Errors](https://metalpriceapi.com/documentation). |
| **base** | Returns base currency used for the request. |
| **start\_date** | Returns start date of your timeframe for the request. |
| **end\_date** | Returns end date of your timeframe for the request. |
| **rates -> start\_rate** | Returns exchange rate for the start date. |
| **rates -> end\_rate** | Returns exchange rate for the end date. |
| **rates -> change** | Returns change (decimal number) of the given currency rate between the start and end date. |
| **rates -> change\_pct** | Returns percent change of the given currency rate between your start and end date. Formula used is ((end\_rate - start\_rate) / start\_rate) \* 100 |

**Carat Query (Paid plan)**

This endpoint is used to request the gold rate by Carat.

**Example API Request**

https://api.metalpriceapi.com/v1/**carat**

?api\_key=[API\_KEY]

&base=USD

&currency=XAU

&date=2021-04-23

**Request Parameters**

| **Parameter** | **Description** |
| --- | --- |
| **api\_key** | **[Required]** Your API Key. [More details](https://metalpriceapi.com/documentation). |
| **base** | [optional] Specify a base currency. Base Currency will default to USD if this parameter is not defined. |
| **currency** | [optional] Specify currency to get Carat. If not specified, uses XAU. |
| **date** | [optional] Specify date to get Carat. If not specified, uses live rates. |

**Example API Response**

{

"success": true,

"base": "USD",

"timestamp": 1650130340,

"data": {

"24k": 12.69083155,

"23k": 12.16204691,

"22k": 11.63326226,

"21.6k": 11.42174839,

"21k": 11.10447761,

"18k": 9.51812367,

"16k": 8.46055437,

"14k": 7.40298507,

"12k": 6.34541578,

"10k": 5.28784648,

"9k": 4.75906183,

"8k": 4.23027718,

"6k": 3.17270789

}

}

One carat equals 0.200 grams or 1/5 gram.  
24k gold is 100% pure gold.  
In this sample response, 24k price of **12.69083155 USD**  
**1 gram of 24k gold is equal to 63.45 USD ($12.69 \* 5)**

**Response Attributes**

| **Attribute** | **Description** |
| --- | --- |
| **success** | Returns **true** or **false** depending if the API Request succeeded. If **false**, refer to [API Errors](https://metalpriceapi.com/documentation). |
| **base** | Returns base currency used for the request. |
| **timestamp** | Returns the UNIX timestamp the given exchange rates were collected. |
| **data** | Returns carat data. |