unstructured content on making basic API call to OpenWeatherMap

Most of info comes from https://openweathermap.org/appid

Task: Make an API call with OpenWeatherMap to get temperature in your area

Best way to start and continue calling OpenWeather APIs

OpenWeather platform is a set of elegant and widely recognisable APIs. Powered by convolutional machine learning solutions, it is capable of delivering all the weather information necessary for decision-making for any location on the globe. To start using our APIs, please sign up here.

How to call OpenWeather APIs with a freemium plan
The API key is all you need to call any of our weather APIs. Once you sign up using your email, the API key (APPID) will be sent to you in a confirmation email. Your API keys can always be found on your account page, where you can also generate additional API keys if needed. Check our documentation page to find all technical information for each product. Documentation is an essential guide with actual examples and comprehensive description of API calls, responses and parameters.

API key is everything you need to call for weather data
Please, use your API key in every API call you make. Our platform only processes the API requests with an API key included. The API keys linked to your account are used to take count of the calls you make to OpenWeather platform.

Example on how to make an API call using your API key
API call

http://api.openweathermap.org/data/2.5/forecast?id=524901&appid={API key}

To get API key:
- sign in to site
- go to https://home.openweathermap.org/api_keys. This is the account name > My API Keys option in upper-right corner.
- in field near API key, add name for API key. then click Generate
- wait about an hour for it to activate.
- copy key
- example call: api.openweathermap.org/data/2.5/forecast?id=524901&appid={API key}

- paste in browser URL address bar
- or put into postman

api.openweathermap.org/data/2.5/forecast?id=98058&704f3513df3f72bfa7e8361d6729db9e

you will get error if key isn't active:
{"cod":401, "message": "Invalid API key. Please see https://openweathermap.org/faq#error401 for more info."}

key status says active in dashboard but really takes an hour

You can generate as many API keys as needed for your subscription. We accumulate the total load from all of them.

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API care recommendations
Like any other things you are using, the API requires some attention. To let it serve you properly, we suggest that you carefully read these instructions and care recommendations.

First, we recommend making API calls no more than once in 10 minutes for each location, whether you call it by city name, geographical coordinates or by zip code. The update frequency of the OpenWeather model is not higher than once in 10 minutes.

Second, the only endpoint for making free API calls is api.openweathermap.org. Please, don’t use the server’s IP address. The endpoint for paid subscription plans is different and it can be found in the confirmation email we send you once your subscription is activated

Third, to get a precise geocoding searching result would rather call API by geographical coordinates. You can always call the OpenWeather APIs using the city name or zip/post code. In case you need to get geographical coordinates by name of your location please use our Geocoding API.

Finally, please mind that all our tariff plans have caps on the quantity of calls made to API and it varies depending on the subscription type. In case you don’t obtain an API response due to hitting the limit of calls, we would ask you to repeat your request in 10 minutes. On this occasion, we also recommend to keep the API request unamended, since it would help our internal caching service to process your request timely.

When you exceed the API call limit

We take a count of calls made with all API keys assigned to your account. We are mindful of your end users, so your API key will not be suspended immediately after you reach the API call limit to avoid service interruption and keep your solutions stable. An automatic notification will be sent to your email, suggesting to switch to a paid subscription plan which would meet your requirements. In case we don't hear back from you, your API key will be suspended. You will still be able to resume your subscription by contacting our customer support team.

Response from API when your account is suspended
{ "cod": 429,
"message": "Your account is temporary blocked due to exceeding of requests limitation of your subscription type.
Please choose the proper subscription http://openweathermap.org/price"
}

http://api.openweathermap.org/data/2.5/forecast?id=524901&appid=a41d72c8d1ac8562a08038be387ac01e

curl -X GET
"https://api.openweathermap.org/data/2.5/weather?zip=95050&appid=98058&a41d72c8d1ac8562a08038be387ac01e&units=imperial"

also make call from postman. just paste into new GET tab, or go to File > Import.

more info: https://openweathermap.org/appid