

API call

<https://api.openweathermap.org/data/2.5/weather?lat={lat}&lon={lon}&appid={API key}>

Parameters

lat	required	Latitude. If you need the geocoder to automatic convert city names and zip-codes to geo coordinates and the other way around, please use our Geocoding API
lon	required	Longitude. If you need the geocoder to automatic convert city names and zip-codes to geo coordinates and the other way around, please use our Geocoding API
appid	required	Your unique API key (you can always find it on your account page under the "API key" tab)
mode	optional	Response format. Possible values are <code>xml</code> and <code>html</code> . If you don't use the <code>mode</code> parameter format is JSON by default. Learn more
units	optional	Units of measurement. <code>standard</code> , <code>metric</code> and <code>imperial</code> units are available. If you do not use the <code>units</code> parameter, <code>standard</code> units will be applied by default. Learn more
lang	optional	You can use this parameter to get the output in your language. Learn more

API response

JSON

JSON format API response example

```
{
  "coord": {
    "lon": 10.99,
    "lat": 44.34
  },
  "weather": [
    {
      "id": 501,
      "main": "Rain",
      "description": "moderate rain",
      "icon": "10d"
    }
  ],
  "base": "stations",
  "main": {
    "temp": 298.48,
    "feels_like": 298.74,
    "temp_min": 297.56,
    "temp_max": 300.05,
    "pressure": 1015,
```

```
"humidity": 64,  
"sea_level": 1015,  
"grnd_level": 933  
,  
"visibility": 10000,  
"wind": {  
  "speed": 0.62,  
  "deg": 349,  
  "gust": 1.18  
,  
"rain": {  
  "1h": 3.16  
,  
"clouds": {  
  "all": 100  
,  
"dt": 1661870592,  
"sys": {  
  "type": 2,  
  "id": 2075663,  
  "country": "IT",  
  "sunrise": 1661834187,  
  "sunset": 1661882248  
,  
"timezone": 7200,  
"id": 3163858,
```

```
"name": "Zocca",  
"cod": 200  
}
```

JSON format API response fields

- **coord**
 - **coord.lon** Longitude of the location
 - **coord.lat** Latitude of the location
- **weather** (more info [Weather condition codes](#))
 - **weather.id** Weather condition id
 - **weather.main** Group of weather parameters (Rain, Snow, Clouds etc.)
 - **weather.description** Weather condition within the group. Please find more [here](#). You can get the output in your language. [Learn more](#)
 - **weather.icon** Weather icon id
- **base** Internal parameter
- **main**
 - **main.temp** Temperature. Unit Default: Kelvin, Metric: Celsius, Imperial: Fahrenheit
 - **main.feels_like** Temperature. This temperature parameter accounts for the human perception of weather. Unit Default: Kelvin, Metric: Celsius, Imperial: Fahrenheit
 - **main.pressure** Atmospheric pressure on the sea level, hPa
 - **main.humidity** Humidity, %
 - **main.temp_min** Minimum temperature at the moment. This is minimal currently observed temperature (within large megalopolises and urban areas). Please find more info [here](#). Unit Default: Kelvin, Metric: Celsius, Imperial: Fahrenheit
 - **main.temp_max** Maximum temperature at the moment. This is maximal currently observed temperature (within large megalopolises and urban areas). Please find more info [here](#). Unit Default: Kelvin, Metric: Celsius, Imperial: Fahrenheit
 - **main.sea_level** Atmospheric pressure on the sea level, hPa

- `main.grnd_level` Atmospheric pressure on the ground level, hPa
- `visibility` Visibility, meter. The maximum value of the visibility is 10 km
- `wind`
 - `wind.speed` Wind speed. Unit Default: meter/sec, Metric: meter/sec, Imperial: miles/hour
 - `wind.deg` Wind direction, degrees (meteorological)
 - `wind.gust` Wind gust. Unit Default: meter/sec, Metric: meter/sec, Imperial: miles/hour
- `clouds`
 - `clouds.all` Cloudiness, %
- `rain`
 - `rain.1h` (where available) Rain volume for the last 1 hour, mm. Please note that only mm as units of measurement are available for this parameter
 - `rain.3h` (where available) Rain volume for the last 3 hours, mm. Please note that only mm as units of measurement are available for this parameter
- `snow`
 - `snow.1h` (where available) Snow volume for the last 1 hour, mm. Please note that only mm as units of measurement are available for this parameter
 - `snow.3h` (where available) Snow volume for the last 3 hours, mm. Please note that only mm as units of measurement are available for this parameter
- `dt` Time of data calculation, unix, UTC
- `sys`
 - `sys.type` Internal parameter
 - `sys.id` Internal parameter
 - `sys.message` Internal parameter
 - `sys.country` Country code (GB, JP etc.)
 - `sys.sunrise` Sunrise time, unix, UTC
 - `sys.sunset` Sunset time, unix, UTC

- **timezone** Shift in seconds from UTC
- **id** City ID. Please note that built-in geocoder functionality has been deprecated. Learn more [here](#)
- **name** City name. Please note that built-in geocoder functionality has been deprecated. Learn more [here](#)
- **cod** Internal parameter