

GET CITY AND WEATHER DATA WITH MAP

Project by Preethi R Ringh

To get api key you need to visit <https://openweathermap.org/api>

- Sign-up
- Current Weather Data -> subscribe -> Free -> Get API key

Visit my [GitHub Profile](#)</br> Visit my Website [WEBSITE](#)

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In [ ]: from IPython.display import clear_output
import requests, json
import folium

BASE_URL = "https://api.openweathermap.org/data/2.5/weather?"
CITY = input ("Enter City: ")
clear_output()
API_KEY= "PUT YOUR API KEY HERE"
URL = BASE_URL + "q=" + CITY + "&appid=" + API_KEY
response = requests.get(URL)

# checking the status code of the request
if response.status_code == 200:
    # getting data in the json format
    data = response.json()
    # getting the main dict block
    main = data['main']
    coord = data['coord']
    wind = data['wind']
    temperature = main['temp']
    temperature = temperature - 273.15
    humidity = main['humidity']
    pressure = main['pressure']
    wind_speed = wind['speed']
    report = data['weather']
    lon = coord['lon']
    lat = coord['lat']

    print(f"CITY: ^30")
    print(f"Temperature: {round(temperature,2)}C")
    print(f"Humidity: {humidity}")
    print(f"Pressure: {pressure}")
    print(f"Wind Speed: {wind_speed}m/s")
    print(f"Longitude and Latitude: {lon}, {lat}")
    print(f"Weather : {report[0]['main']}")
    print(f"Weather description: {report[0]['description']}")
    # printing map using folium
else:
    # showing the error message
    print("Error in the HTTP request")
XML_URL = BASE_URL + "q=" + CITY + "&mode=xml"&appid=" + API_KEY"
print(XML_URL)
map = folium.Map(location=[lat,lon], zoom_start=8)

folium.CircleMarker(
    location=[lat,lon],
    radius=30,
    popup=CITY,
    color="#3186cc",
    fill=True,
    fill_color="#3186cc",
).add_to(map)
map
```

-----mumbai-----
Temperature: 32.51C
Humidity: 70
Pressure: 1011
Wind Speed: 7.2m/s
Longitude and Latitude: 72.8479, 19.0144
Weather : Haze
Weather description: haze
<https://api.openweathermap.org/data/2.5/weather?q=mumbai&mode=xml&appid=PUT YOUR API KEY HERE>

