

EX1020

Python code for reverse Geo-coding using Google API

Asked 5 years, 8 months ago Modified 3 years, 10 months ago Viewed 12k times



I am getting the geo-data in a json file (geo.json) which has the following structure

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```
{"userId":"Geo-data","data":  
{"mocked":false,"timestamp":1548173963281,"coords":  
{"speed":0,"heading":0,"accuracy":20.20400047302246,"longitude":88.4048656,"altitu
```



All I want is to print the place details corresponding to above data and if possible to show it on MAP also.I have tried the following code with geopy



```
from geopy.geocoders import Nominatim  
geolocator = Nominatim()  
location = geolocator.reverse("22.5757344, 88.4048656")  
print(location.address)  
print((location.latitude, location.longitude))
```

But the location I am getting is not very accurate. Whereas the same coordinates give good results in <https://www.latlong.net/Show-Latitude-Longitude.html> I also have a Google API key. However, what ever references I found so far are almost like a project themselves and a overkill for a beginner like me. The geopy code was fine but the location accuracy is very poor. Please help.

P.S I have tried geocoder also as

```
import geocoder  
g = geocoder.google([45.15, -75.14], method='reverse')  
print(g.city)  
print(g.state)  
print(g.state_long)  
print(g.country)  
print(g.country_long)
```

However it is printing 'None' in all the cases.

python-2.7

google-maps

reverse-geocoding

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edited Jan 23, 2019 at 14:28

asked Jan 23, 2019 at 6:05



Bukaida

235 2 6 16

- 2 Don't know why someone has marked it negative. It is not a duplicate and I have tried to explain everything I tried so that someone can help. How else am I suppose to ask? – Bukaida Jan 23, 2019 at 14:22

2 Answers

Sorted by: Highest score (default)



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You could consider to switch from [OpenStreetMap Nominatim](#) provider to [Google Geocoding](#). Then, the following example seems returns the address you expect it to:

```
from geopy.geocoders import GoogleV3

geolocator = GoogleV3(api_key=google_key)
locations = geolocator.reverse("22.5757344, 88.4048656")
if locations:
    print(locations[0].address) # select first location
```

Result

R-1, GA Block, Sector III, Salt Lake City, Kolkata, West Bengal 700106, India

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answered Jan 30, 2019 at 12:22



Vadim Gremyachev

59.1k 20 136 202

- 1 Thanks, works perfectly in command line. Anyway to show the same on Map? I have unrestricted Test API. – Bukaida Jan 31, 2019 at 5:43

with the latest geopy library (2.2.0) the `geolocator.reverse()` call defaults the `exactly_one=True` argument. Thus the code should be modified to `location = geolocator.reverse("22.5757344, 88.4048656") if location: location.address`
– Jeff Sheffield Jan 10, 2022 at 23:08



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You can try a Python Client for Google Maps Services library that can be found at

<https://github.com/googlemaps/google-maps-services-python>

This is a wrapper library for Google Maps API web service requests developed by Googlers. The code snapshot is the following

```
import googlemaps
gmaps = googlemaps.Client(key='Add Your Key here')

# Look up an address with reverse geocoding
reverse_geocode_result = gmaps.reverse_geocode((22.5757344, 88.4048656))
```

This code returns address R-1, GA Block, Sector III, Salt Lake City, Kolkata, West Bengal 700106, India similar to the result that you can see in Geocoder tool:

<https://developers-dot-devsite-v2-prod.appspot.com/maps/documentation/utils/geocoder/#q%3D22.575734%252C88.404866>

For further details have a look at the documentation in github.

I hope this helps!

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edited Nov 15, 2020 at 23:50

answered Jan 30, 2019 at 18:50



xomena

32k 6 94 122

It is showing a screen full of information as my API key is unrestricted. I have seen the Github before asking help here, but it was a overkill for a noob like me. – Bukaida Jan 31, 2019 at 5:50
