

DSP S05 T01

July 24, 2021

1 S05 T01: Transformació Registre Log amb Regular expressions

1.1 Descripció

L'anàlisi de registres és una funció important per al control i l'alerta, el compliment de les polítiques de seguretat, l'auditoria i el compliment normatiu, la resposta a incidents de seguretat i fins i tot les investigacions forenses. En analitzar les dades de registre, les empreses poden identificar més fàcilment les possibles amenaces i altres problemes, trobar la causa arrel i iniciar una resposta ràpida per mitigar els riscos.

1.2 Nivell 1

L'analista ha d'assegurar-se que els registres consisteixen en una gamma completa de missatges i s'interpreten segons el context. Els elements de registre han d'estandaritzar-se, utilitzant els mateixos termes o terminologia, per evitar confusions i proporcionar cohesió.

Com Científic de Dades se t'ha proporcionat accés als registres-Logs on queda registrada l'activitat de totes les visites a realitzades a la pàgina web de l'agència de viatges “akumenius.com”.

- Exercici 1 Estandaritza, identifica i enumera cada un dels atributs / variables de l'estructura de l'arxiu “Web_access_log-akumenius.com” que trobaràs al repositori de GitHub “Data-sources”.

1.3 Nivell 2

- Exercici 2 Neteja, preprocesa, estructura i transforma (dataframe) les dades del registre d'Accés a la web.
- Exercici 3 Geolocalitza les IP's.

1.4 Nivell 3

- Exercici 3 Mostra'm la teva creativitat, Sorprèn-me fes un pas més enllà amb l'anàlisi anterior.

Recuperem el fitxer amb les dades.

```
[7]: import pandas as pd
import re
hand = open('Web_access_log-akumenius.com.txt')
fsortida=open('Sortida.csv','w')
```

Obrim el fitxer per procedir al tractament de les línies.

```
[8]: numlin=0
x=0
for line in hand:
    # canviare totes les , per ;
    x=line.replace(",",";")
    x=x.replace(" ",",",6)
    x=x.replace(" \\",",\\")
    x=x.replace("\\" ,",\\",")
    x=x.replace("[",")")
    x=x.replace("]",")")
    x=x.replace(":",",",1)
    fsortida.write(x)
    if numlin==55550 :
        print("El contingut original del fitxer te aquest aspecte:\n")
        print(line)
        print("\nDesprés del tractament, ha quedat:\n")
        print(x)
    numlin=numlin+1
hand.close
fsortida.close
```

El contingut original del fitxer te aquest aspecte:

```
www.akumenius.com 46.234.129.140 - - [24/Feb/2014:12:04:48 +0100] "GET
//libraries/anythingSlider/images/1a.png HTTP/1.1" 200 2305
"http://www.akumenius.com/" "Mozilla/5.0 (Linux; U; Android 4.2.2; es-es;
PrimuxCiclon2 Build/JDQ39) AppleWebKit/534.30 (KHTML, like Gecko) Version/4.0
Safari/534.30" VLOG=-
```

Després del tractament, ha quedat:

```
www.akumenius.com,46.234.129.140,-,-,24/Feb/2014,12:04:48,+0100,"GET
//libraries/anythingSlider/images/1a.png HTTP/1.1",200
2305,"http://www.akumenius.com/","Mozilla/5.0 (Linux; U; Android 4.2.2; es-es;
PrimuxCiclon2 Build/JDQ39) AppleWebKit/534.30 (KHTML; like Gecko) Version/4.0
Safari/534.30",VLOG=-
```

```
[8]: <function TextIOWrapper.close()>
```

```
[9]: # importing libraries
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import warnings
plt.rcParams['figure.figsize'] = (10,10)
```

```
warnings.filterwarnings('ignore')
```

1.5 Identificació de les variables

Després del tractament del fitxer, s'han identificat les diferents variables que s'importaran i han estat anomenades:

- **ConnectPoint**: lloc d'accés
- **IPAddress**: Direcció IP des d'on s'accedeix
- **C1**: Camp de contingut desconegut n°1
- **C2**: Camp de contingut desconegut n°2
- **Date**: Data de la connexió.
- **Hour**: Hora de la connexió.
- **TimeZ**: Zona horària des d'on s'ha fet la connexió.
- **Message01**: Missatge HTML generat.
- **Resp**: Resposta generada al missatge.
- **C3**: Camp de contingut desconegut n°3.
- **Message02**: Missatge amb informació referent al programari que realitza la connexió.
- **fi**: Identificador de final de registre

```
[12]: # Open the choosen file
tips = pd.read_csv('Sortida.
↳csv', names=['ConnectPoint', 'IPAddress', 'C1', 'C2', 'Date', 'Hour', 'TimeZ', 'Message01', 'Resp', ''])
```

```
[14]: print(f"En el dataframe creat disposem de {tips.shape[0]} registres i {tips.
↳shape[1]} columnes")
```

En el dataframe creat disposem de 261819 registres i 12 columnes

```
[7]: tips.shape
```

```
[7]: (261819, 12)
```

```
[8]: tips.head(50)
```

```
[8]:
```

	ConnectPoint	IPAddress	C1	C2	Date	Hour	TimeZ	\
0	localhost	127.0.0.1	-	-	23/Feb/2014	03:10:31	+0100	
1	localhost	127.0.0.1	-	-	23/Feb/2014	03:10:31	+0100	
2	localhost	127.0.0.1	-	-	23/Feb/2014	03:10:31	+0100	
3	localhost	127.0.0.1	-	-	23/Feb/2014	03:10:31	+0100	
4	localhost	127.0.0.1	-	-	23/Feb/2014	03:10:31	+0100	
5	localhost	127.0.0.1	-	-	23/Feb/2014	03:10:31	+0100	
6	localhost	127.0.0.1	-	-	23/Feb/2014	03:10:31	+0100	
7	localhost	127.0.0.1	-	-	23/Feb/2014	03:10:31	+0100	
8	localhost	127.0.0.1	-	-	23/Feb/2014	03:10:31	+0100	
9	localhost	127.0.0.1	-	-	23/Feb/2014	03:10:31	+0100	
10	localhost	127.0.0.1	-	-	23/Feb/2014	03:10:31	+0100	
11	localhost	127.0.0.1	-	-	23/Feb/2014	03:10:31	+0100	
12	localhost	127.0.0.1	-	-	23/Feb/2014	03:10:31	+0100	

13	localhost	127.0.0.1	-	-	23/Feb/2014	03:10:31	+0100
14	localhost	127.0.0.1	-	-	23/Feb/2014	03:10:31	+0100
15	localhost	127.0.0.1	-	-	23/Feb/2014	03:10:31	+0100
16	localhost	127.0.0.1	-	-	23/Feb/2014	03:10:31	+0100
17	localhost	127.0.0.1	-	-	23/Feb/2014	03:10:31	+0100
18	localhost	127.0.0.1	-	-	23/Feb/2014	03:10:31	+0100
19	localhost	127.0.0.1	-	-	23/Feb/2014	03:10:31	+0100
20	localhost	127.0.0.1	-	-	23/Feb/2014	03:10:31	+0100
21	localhost	127.0.0.1	-	-	23/Feb/2014	03:10:31	+0100
22	www.akumenius.com	66.249.76.216	-	-	23/Feb/2014	03:10:31	+0100
23	www.akumenius.com	66.249.76.216	-	-	23/Feb/2014	03:10:33	+0100
24	www.akumenius.com	66.249.76.216	-	-	23/Feb/2014	03:10:35	+0100
25	www.akumenius.com	66.249.76.216	-	-	23/Feb/2014	03:10:38	+0100
26	www.akumenius.com	66.249.76.216	-	-	23/Feb/2014	03:10:39	+0100
27	www.akumenius.com	66.249.76.216	-	-	23/Feb/2014	03:10:40	+0100
28	www.akumenius.com	66.249.76.216	-	-	23/Feb/2014	03:10:42	+0100
29	www.akumenius.com	66.249.76.216	-	-	23/Feb/2014	03:10:45	+0100
30	www.akumenius.com	66.249.76.216	-	-	23/Feb/2014	03:10:46	+0100
31	www.akumenius.com	66.249.76.216	-	-	23/Feb/2014	03:10:47	+0100
32	www.akumenius.com	66.249.76.216	-	-	23/Feb/2014	03:10:49	+0100
33	www.akumenius.com	66.249.76.216	-	-	23/Feb/2014	03:10:52	+0100
34	www.akumenius.com	66.249.76.216	-	-	23/Feb/2014	03:10:53	+0100
35	www.akumenius.com	66.249.76.216	-	-	23/Feb/2014	03:10:54	+0100
36	www.akumenius.com	5.255.253.53	-	-	23/Feb/2014	03:10:56	+0100
37	www.akumenius.com	66.249.76.216	-	-	23/Feb/2014	03:10:56	+0100
38	www.akumenius.com	66.249.76.216	-	-	23/Feb/2014	03:10:59	+0100
39	www.akumenius.com	66.249.76.216	-	-	23/Feb/2014	03:11:01	+0100
40	www.akumenius.com	66.249.76.216	-	-	23/Feb/2014	03:11:01	+0100
41	www.akumenius.com	157.55.35.112	-	-	23/Feb/2014	03:11:02	+0100
42	www.akumenius.com	66.249.76.216	-	-	23/Feb/2014	03:11:03	+0100
43	www.akumenius.com	66.249.76.216	-	-	23/Feb/2014	03:11:06	+0100
44	www.akumenius.com	193.111.141.116	-	-	23/Feb/2014	03:11:07	+0100
45	www.akumenius.com	66.249.76.216	-	-	23/Feb/2014	03:11:08	+0100
46	www.akumenius.com	66.249.76.216	-	-	23/Feb/2014	03:11:09	+0100
47	www.akumenius.com	66.249.76.216	-	-	23/Feb/2014	03:11:10	+0100
48	www.akumenius.com	66.249.76.216	-	-	23/Feb/2014	03:11:13	+0100
49	www.akumenius.com	66.249.76.216	-	-	23/Feb/2014	03:11:14	+0100

	Message01	Resp C3	\
0	OPTIONS * HTTP/1.0	200 - -	
1	OPTIONS * HTTP/1.0	200 - -	
2	OPTIONS * HTTP/1.0	200 - -	
3	OPTIONS * HTTP/1.0	200 - -	
4	OPTIONS * HTTP/1.0	200 - -	
5	OPTIONS * HTTP/1.0	200 - -	
6	OPTIONS * HTTP/1.0	200 - -	
7	OPTIONS * HTTP/1.0	200 - -	

8	OPTIONS * HTTP/1.0	200	-	-
9	OPTIONS * HTTP/1.0	200	-	-
10	OPTIONS * HTTP/1.0	200	-	-
11	OPTIONS * HTTP/1.0	200	-	-
12	OPTIONS * HTTP/1.0	200	-	-
13	OPTIONS * HTTP/1.0	200	-	-
14	OPTIONS * HTTP/1.0	200	-	-
15	OPTIONS * HTTP/1.0	200	-	-
16	OPTIONS * HTTP/1.0	200	-	-
17	OPTIONS * HTTP/1.0	200	-	-
18	OPTIONS * HTTP/1.0	200	-	-
19	OPTIONS * HTTP/1.0	200	-	-
20	OPTIONS * HTTP/1.0	200	-	-
21	OPTIONS * HTTP/1.0	200	-	-
22	GET /hoteles-baratos/ofertas-hotel-Club-&Hote...	404 3100	-	
23	GET /hoteles-baratos/ofertas-hotel-Metropolis-...	404 3100	-	
24	GET /hoteles-baratos/ofertas-hotel-Faena-Hotel...	404 3100	-	
25	GET /hoteles-baratos/ofertas-hotel-Kensington-...	404 3100	-	
26	GET /destinos-baratos/destinosEstrelles/hotele...	200 8811	-	
27	GET /hoteles-baratos/ofertas-hotel-Howard-Jhon...	404 3100	-	
28	GET /hoteles-baratos/ofertas-hotel-Princesa-So...	404 3100	-	
29	GET /hoteles-baratos/ofertas-hotel-Kfar-Giladi...	404 3100	-	
30	GET /destinos-baratos/destinosEstrelles/hotele...	200 8816	-	
31	GET /hoteles-baratos/ofertas-hotel-Casual-Hote...	404 3100	-	
32	GET /hoteles-baratos/ofertas-hotel-Lucky-2-en-...	404 3100	-	
33	GET /hoteles-baratos/ofertas-hotel-Natali-Torr...	404 3100	-	
34	GET /destinos-baratos/destinosEstrelles/hotele...	200 8810	-	
35	GET /hoteles-baratos/ofertas-hotel-Hotel-Costa...	404 3100	-	
36	GET /destinos-baratos/hoteles-baratos/ofertas-...	404 3100	-	
37	GET /hoteles-baratos/ofertas-hotel-Quintessia-...	404 3100	-	
38	GET /hoteles-baratos/ofertas-hotel-Cill-Aodain...	404 3100	-	
39	GET /destinos-baratos/destinosEstrelles/hotele...	200 8812	-	
40	GET /hoteles-baratos/ofertas-hotel-Venetur-Hot...	404 3100	-	
41	GET /destinos-baratos/destinos-caracteristicas...	200 14818	-	
42	GET /hoteles-baratos/ofertas-hotel-Ametlla-Mar...	404 3100	-	
43	GET /hoteles-baratos/ofertas-hotel-Abba-Comill...	404 3100	-	
44	GET /hoteles-baratos/ofertas-hotel-Roque-Monic...	404 17750	-	
45	GET /hoteles-baratos/ofertas-hotel-Westin-Pana...	404 3100	-	
46	GET /destinos-baratos/destinosEstrelles/hotele...	200 8807	-	
47	GET /hoteles-baratos/ofertas-hotel-Kenia-Nevad...	404 3100	-	
48	GET /destinos-caracteristicas/hoteles-baratos-...	200 9914	-	
49	GET /hoteles-baratos/ofertas-hotel-Tugcu-Hotel...	404 3100	-	
Message02		fi		
0	Apache (internal dummy connection)	VLOG=-		
1	Apache (internal dummy connection)	VLOG=-		
2	Apache (internal dummy connection)	VLOG=-		

```

3         Apache (internal dummy connection) VLOG==
4         Apache (internal dummy connection) VLOG==
5         Apache (internal dummy connection) VLOG==
6         Apache (internal dummy connection) VLOG==
7         Apache (internal dummy connection) VLOG==
8         Apache (internal dummy connection) VLOG==
9         Apache (internal dummy connection) VLOG==
10        Apache (internal dummy connection) VLOG==
11        Apache (internal dummy connection) VLOG==
12        Apache (internal dummy connection) VLOG==
13        Apache (internal dummy connection) VLOG==
14        Apache (internal dummy connection) VLOG==
15        Apache (internal dummy connection) VLOG==
16        Apache (internal dummy connection) VLOG==
17        Apache (internal dummy connection) VLOG==
18        Apache (internal dummy connection) VLOG==
19        Apache (internal dummy connection) VLOG==
20        Apache (internal dummy connection) VLOG==
21        Apache (internal dummy connection) VLOG==
22 Mozilla/5.0 (compatible; Googlebot/2.1; +http:... VLOG==
23 Mozilla/5.0 (compatible; Googlebot/2.1; +http:... VLOG==
24 Mozilla/5.0 (compatible; Googlebot/2.1; +http:... VLOG==
25 Mozilla/5.0 (compatible; Googlebot/2.1; +http:... VLOG==
26 Mozilla/5.0 (compatible; Googlebot/2.1; +http:... VLOG==
27 Mozilla/5.0 (compatible; Googlebot/2.1; +http:... VLOG==
28 Mozilla/5.0 (compatible; Googlebot/2.1; +http:... VLOG==
29 Mozilla/5.0 (compatible; Googlebot/2.1; +http:... VLOG==
30 Mozilla/5.0 (compatible; Googlebot/2.1; +http:... VLOG==
31 Mozilla/5.0 (compatible; Googlebot/2.1; +http:... VLOG==
32 Mozilla/5.0 (compatible; Googlebot/2.1; +http:... VLOG==
33 Mozilla/5.0 (compatible; Googlebot/2.1; +http:... VLOG==
34 Mozilla/5.0 (compatible; Googlebot/2.1; +http:... VLOG==
35 Mozilla/5.0 (compatible; Googlebot/2.1; +http:... VLOG==
36 Mozilla/5.0 (compatible; YandexBot/3.0; +http:... VLOG==
37 Mozilla/5.0 (compatible; Googlebot/2.1; +http:... VLOG==
38 Mozilla/5.0 (compatible; Googlebot/2.1; +http:... VLOG==
39 Mozilla/5.0 (compatible; Googlebot/2.1; +http:... VLOG==
40 Mozilla/5.0 (compatible; Googlebot/2.1; +http:... VLOG==
41 Mozilla/5.0 (compatible; bingbot/2.0; +http://... VLOG==
42 Mozilla/5.0 (compatible; Googlebot/2.1; +http:... VLOG==
43 Mozilla/5.0 (compatible; Googlebot/2.1; +http:... VLOG==
44 Mozilla/5.0 (X11; Linux i686; rv:6.0) Gecko/20... VLOG==
45 Mozilla/5.0 (compatible; Googlebot/2.1; +http:... VLOG==
46 Mozilla/5.0 (compatible; Googlebot/2.1; +http:... VLOG==
47 Mozilla/5.0 (compatible; Googlebot/2.1; +http:... VLOG==
48 Mozilla/5.0 (compatible; Googlebot/2.1; +http:... VLOG==
49 Mozilla/5.0 (compatible; Googlebot/2.1; +http:... VLOG==

```

En el registres no hi han camps nulls, malgrat n'hi han sense informació.

```
[9]: tips.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 261819 entries, 0 to 261818
Data columns (total 12 columns):
#   Column          Non-Null Count  Dtype
---  -
0   ConnectPoint    261819 non-null object
1   IPAddress       261819 non-null object
2   C1              261819 non-null object
3   C2              261819 non-null object
4   Date            261819 non-null object
5   Hour            261819 non-null object
6   TimeZ          261819 non-null object
7   Message01       261819 non-null object
8   Resp           261819 non-null object
9   C3              261819 non-null object
10  Message02       261819 non-null object
11  fi              261819 non-null object
dtypes: object(12)
memory usage: 24.0+ MB
```

```
[10]: tips.tail()
```

```
[10]:
```

	ConnectPoint	IPAddress	C1	C2	Date	Hour	TimeZ	\
261814	www.akumenius.com	188.135.173.80	-	-	02/Mar/2014	02:44:08	+0100	
261815	www.akumenius.com	188.135.173.80	-	-	02/Mar/2014	02:44:09	+0100	
261816	www.akumenius.com	66.249.76.216	-	-	02/Mar/2014	02:44:49	+0100	
261817	www.akumenius.com	66.249.76.216	-	-	02/Mar/2014	02:44:53	+0100	
261818	www.akumenius.com	66.249.76.216	-	-	02/Mar/2014	02:45:27	+0100	

	Message01	Resp	\
261814	GET /destinos-baratos/hoteles-en-Alvor_PORTUGA...	200 21144	
261815	GET /destinos-baratos/hoteles-baratos/ofertas-...	200 6597	
261816	GET /destinos-caracteristicas/hoteles-baratos-...	200 10404	
261817	GET /destinosCaracteristicas/hoteles-baratos-e...	200 18231	
261818	GET /destinos-caracteristicas/hoteles-baratos-...	200 8505	

	C3	\
261814	http://www.akumenius.com/	
261815	http://www.akumenius.com/	
261816	-	
261817	-	
261818	-	

	Message02	fi
--	-----------	----

```

261814 Mozilla/5.0 (Windows NT 6.1) AppleWebKit/537.3... VLOG=-
261815 Mozilla/5.0 (Windows NT 6.1) AppleWebKit/537.3... VLOG=-
261816 Mozilla/5.0 (compatible; Googlebot/2.1; +http:... VLOG=-
261817 Mozilla/5.0 (compatible; Googlebot/2.1; +http:... VLOG=-
261818 Mozilla/5.0 (compatible; Googlebot/2.1; +http:... VLOG=-

```

Pensant en la geolocalització de les connexions, esbrino quantes adreces IP diferents hi han.

```
[15]: len(tips['IPAddress'].unique())
```

```
[15]: 2920
```

```
[12]: tips['IPAddress'].unique()
```

```
[12]: array(['127.0.0.1', '66.249.76.216', '5.255.253.53', ..., '79.155.78.117',
          '217.174.248.179', '188.135.173.80'], dtype=object)
```

La primera API trobada sembla funcionar quan es busca una única IP, però en intentar automatitzar per a tots el registres surten errors. Sembla que el servidor rebutja les consultes consecutives...

```
[20]: # preparacio per obtenir la latitud i la longitud a partir de la IP de connexio
import requests
import json
from time import sleep
# URL de la API
api_url = "http://ip-api.com/json/"
parametros = 'lat,lon'
data = {"fields":parametros}

def ip_scraping(ip):
    # Nos conectamos con la API
    res = requests.get(api_url+ip, data=data)
    # Obtenemos y procesamos la respuesta JSON
    api_json_res = json.loads(res.content)
    return api_json_res

def troba_lat(ip):
    #print(ip_scraping(ip))
    return (ip_scraping(ip))

def troba_lon(ip):
    return (ip_scraping(ip))

#print(tips['IPAddress'][1199])
l=ip_scraping(tips['IPAddress'][8988])
print(l)
sleep(1)
l=ip_scraping(tips['IPAddress'][98988])
```



```
print(l)
sleep(1)

# troba_posicio(tips['IPAddress'][99], 'lon')
```

```
{'status': 'success', 'country': 'United States', 'countryCode': 'US', 'region':
'CA', 'regionName': 'California', 'city': 'Mountain View', 'zip': '94043',
'lat': 37.422, 'lon': -122.084, 'timezone': 'America/Los_Angeles', 'isp':
'Google LLC', 'org': 'Google LLC', 'as': 'AS15169 Google LLC', 'query':
'66.249.76.216'}
{'status': 'success', 'country': 'United States', 'countryCode': 'US', 'region':
'CA', 'regionName': 'California', 'city': 'Mountain View', 'zip': '94043',
'lat': 37.422, 'lon': -122.084, 'timezone': 'America/Los_Angeles', 'isp':
'Google LLC', 'org': 'Google LLC', 'as': 'AS15169 Google LLC', 'query':
'66.249.76.216'}
```

```
[22]: l=ip_scraping(tips['IPAddress'][18988])
print(l)
sleep(1)
```

```
{'status': 'success', 'country': 'United States', 'countryCode': 'US', 'region':
'CA', 'regionName': 'California', 'city': 'Mountain View', 'zip': '94043',
'lat': 37.422, 'lon': -122.084, 'timezone': 'America/Los_Angeles', 'isp':
'Google LLC', 'org': 'Google LLC', 'as': 'AS15169 Google LLC', 'query':
'66.249.76.216'}
```

Durant les proves realitzades, l'API anterior no retornava resultats a partir de la primera búsqueda, malgrat que ara mentre poso aquest comentaris sembla funcionar... Ha estat per aquest motiu que n'he buscat una altra

```
[23]: # https://api.ipgeolocation.io/ipgeo?
      ↳apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=66.249.76.216
api_url = "https://api.ipgeolocation.io/ipgeo?
      ↳apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip="+str(tips['IPAddress'][8988])
print (api_url)
res = requests.get(api_url)
api_json_res = json.loads(res.content)
print( api_json_res)
```

```
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=66
.249.76.216
{'ip': '66.249.76.216', 'continent_code': 'NA', 'continent_name': 'North
America', 'country_code2': 'US', 'country_code3': 'USA', 'country_name': 'United
States', 'country_capital': 'Washington, D.C.', 'state_prov': 'California',
'district': 'Santa Clara', 'city': 'Mountain View', 'zipcode': '94043-1351',
'latitude': '37.42240', 'longitude': '-122.08421', 'is_eu': False,
'calling_code': '+1', 'country_tld': '.us', 'languages': 'en-US,es-US,haw,fr',
'country_flag': 'https://ipgeolocation.io/static/flags/us_64.png', 'geoname_id':
```

```
'6301403', 'isp': 'Google LLC', 'connection_type': '', 'organization': 'Google
LLC', 'currency': {'code': 'USD', 'name': 'US Dollar', 'symbol': '$'},
'time_zone': {'name': 'America/Los_Angeles', 'offset': -8, 'current_time':
'2021-07-24 13:55:03.081-0700', 'current_time_unix': 1627160103.081, 'is_dst':
True, 'dst_savings': 1}}
```

```
[24]: print (api_json_res['latitude'])
      print (api_json_res['longitude'])
```

```
37.42240
-122.08421
```

La informació que retorna la API és un diccionari, amb 24 camps que he fet servir per crear el dataframe, al que aniré incloent la informació de geolocalització.

```
[25]: type(api_json_res)
```

```
[25]: dict
```

```
[26]: len((api_json_res).keys())
```

```
[26]: 24
```

```
[27]: len((api_json_res).values())
```

```
[27]: 24
```

```
[28]: df_infoIP = pd.DataFrame(columns=(api_json_res).keys())
```

```
[29]: df_infoIP
```

```
[29]: Empty DataFrame
Columns: [ip, continent_code, continent_name, country_code2, country_code3,
country_name, country_capital, state_prov, district, city, zipcode, latitude,
longitude, is_eu, calling_code, country_tld, languages, country_flag,
geoname_id, isp, connection_type, organization, currency, time_zone]
Index: []
```

```
[0 rows x 24 columns]
```

```
[30]: df_infoIP=df_infoIP.append(api_json_res,ignore_index=True)
```

```
[31]: df_infoIP
```

```
[31]:      ip  continent_code  continent_name  country_code2  country_code3 \
0  66.249.76.216          NA  North America          US          USA

      country_name  country_capital  state_prov  district  city \
0  United States  Washington, D.C.  California  Santa Clara  Mountain View
```

```

... calling_code country_tld languages \
0 ... +1 .us en-US,es-US,haw,fr

country_flag geoname_id isp \
0 https://ipgeolocation.io/static/flags/us_64.png 6301403 Google LLC

connection_type organization \
0 Google LLC

currency \
0 {'code': 'USD', 'name': 'US Dollar', 'symbol':...

time_zone
0 {'name': 'America/Los_Angeles', 'offset': -8, ...

[1 rows x 24 columns]

```

Amb la següent linia, a partir de la serie de IP uniques del dataframe, faig una consulta de 975 IPs per sota el maxim diari que permet la API (1000 diaries, max 30000 mensuals)

```

[52]: # en aquesta web es poden fer fins 1000 consultes diaries des del mateix usuari
# per tenir info i representar amb geopandas amb el primer tram de 975 sera
↳suficient
# puc completar la taula en tres dies, o intentar amb varis usuaris...
#*****
#peticions=1
#for x in tips['IPAddress'].unique():
#    api_url = "https://api.ipgeolocation.io/ipgeo?
↳apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip="+str(x)
#    print (api_url)
#    res = requests.get(api_url)
#    api_json_res = json.loads(res.content)
#    df_infoIP=df_infoIP.append(api_json_res,ignore_index=True)
#    peticions=peticions+1
#    if peticions>=975 : break

```

```

https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=127.0.0.1
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=66.249.76.216
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=5.255.253.53
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=157.55.35.112
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=193.111.141.116
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=5.

```

10.83.71
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=180.76.5.223
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=180.76.6.148
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=180.76.5.188
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=180.76.6.135
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=180.76.6.44
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=180.76.5.172
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=180.76.5.18
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=157.56.92.174
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=74.86.158.107
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=180.76.6.136
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=5.10.83.87
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=5.10.83.21
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=5.10.83.31
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=180.76.5.64
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=180.76.5.31
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=180.76.5.27
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=180.76.5.65
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=157.55.33.97
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=217.12.28.5
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=180.76.6.64
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=5.10.83.64
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=180.76.5.195
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=180.76.6.40
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18

0.76.5.200
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=13
1.253.24.3
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=19
9.30.20.223
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.6.50
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.168
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=15
7.55.32.88
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=5.
10.83.88
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.23
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.145
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.6.16
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=17
6.31.255.177
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
5.10.104.131
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.6.55
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.95
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.6.59
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=15
7.55.33.26
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.213
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=19
2.81.215.7
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.6.133
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=5.
10.83.52
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=17
4.129.237.157
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.38
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.177
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.6.21
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18

0.76.6.159
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.199
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.6.157
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=15
7.55.32.183
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.6.146
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.6.130
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.6.230
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.156
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=5.
10.83.73
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=5.
10.83.46
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.201
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=5.
10.83.51
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
5.10.104.194
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=16
2.243.192.191
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.69
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.203
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.21
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.6.134
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.220
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.193
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.6.143
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.154
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=74
.86.158.106
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.22
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18

0.76.6.45
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.171
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.148
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=66
.249.75.208
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.192
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=5.
10.83.22
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=15
7.55.35.43
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.6.62
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=21
7.16.255.159
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.144
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.176
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.98
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.116
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.63
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.6.65
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.6.57
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=46
.161.41.24
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.29
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.6.233
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.6.56
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.152
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.155
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.6.153
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.6.151
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18

0.76.5.175
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.187
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=21
7.12.28.130
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.197
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.81
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=20
2.46.61.29
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=11
9.63.193.195
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.78
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.6.54
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.6.156
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.6.46
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.6.152
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.6.14
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=93
.186.202.198
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.6.60
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.6.132
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.170
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.6.28
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.59
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.6.147
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=64
.71.199.139
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=64
.71.198.139
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.6.53
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.190
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18

0.76.5.96
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.39
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
0.76.5.167
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0.76.5.204
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https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=18
6.115.68.62
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=83
.33.72.156
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=95
.17.185.119
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=88
.8.201.76
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=2.
139.249.224
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=81
.202.103.206
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=21
3.143.49.95
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=37
.15.168.65
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=46
.25.24.140
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=19
5.245.248.7
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=13

7.110.244.139
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=202.46.50.12
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=77.210.100.161
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=87.218.156.183
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=81.37.155.60
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=84.121.40.247
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=193.43.252.252
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=178.32.69.212
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=157.55.33.79
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=77.73.203.3
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=213.192.208.181
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=90.170.160.239
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=83.46.243.32
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=81.45.55.152
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=84.123.168.153
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=81.34.78.156
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=88.12.191.185
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=89.29.152.238
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=88.26.227.110
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=220.181.108.105
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=83.36.196.7
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=123.125.71.40
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=81.45.53.212
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=195.55.133.108
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=19

3.162.26.10
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=80.30.16.194
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=190.239.244.81
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=79.145.247.215
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=84.124.18.210
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=80.174.75.1
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=84.114.167.130
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=95.19.92.131
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=190.105.170.194
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=189.203.237.175
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=77.224.86.219
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=217.216.36.142
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=212.145.69.53
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=83.40.187.142
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=150.241.201.231
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=65.55.215.70
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=81.45.53.102
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=82.130.160.93
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=202.46.51.47
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=157.56.93.187
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=157.55.35.36
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=141.212.121.253
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=37.14.197.231
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=83.61.159.209
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=22

```

0.181.108.100
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=12
3.125.71.24
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=87
.218.196.208
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=37
.14.176.250
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=19
0.239.205.113
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=5.
8.190.122
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=77
.226.207.26
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=21
6.151.137.36
https://api.ipgeolocation.io/ipgeo?apiKey=3e9514902d8b45cda8e3e83a39b1dbef&ip=17
6.102.37.56

```

El dataframe generat el guardo en un csv, per poder utilitzar les dades en qualsevol altre moment i no dependre de les limitacions de la API. Si es volgués completar la info de totes les IPs a partir d'una segona i tercera consulta seria viable.

```

[53]: # guardo la info recuperada de la API en un csv, així disposare d'ella en
      ↳ consultes posteriors i la podre ampliar
      # amb següents consultes, pesar a canviar el nom en següent consulta si no
      ↳ vull perdre aquesta info !!!
      #*****
      #df_infoIP.to_csv('IP_info01.csv') # el ...01 sera per la segona consulta quan
      ↳ arribi del 975 al 1950

```

Mentres tant, i per limitacions de temps, treballaré amb aquest dataframe amb informació d'un numero més reduït de registres, que he guardat en un fitxer .csv

```

[32]: df_infoIP = pd.read_csv('IP_info.csv')

```

```

[33]: df_infoIP.info()

```

```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 975 entries, 0 to 974
Data columns (total 26 columns):
#   Column                Non-Null Count  Dtype
---  -
0   Unnamed: 0            975 non-null   int64
1   ip                    970 non-null   object
2   continent_code       708 non-null   object
3   continent_name       970 non-null   object
4   country_code2        970 non-null   object
5   country_code3        970 non-null   object
6   country_name         970 non-null   object

```

```

7   country_capital  970 non-null    object
8   state_prov      900 non-null    object
9   district        652 non-null    object
10  city            956 non-null    object
11  zipcode         717 non-null    object
12  latitude        970 non-null    float64
13  longitude       970 non-null    float64
14  is_eu           970 non-null    object
15  calling_code    970 non-null    float64
16  country_tld     970 non-null    object
17  languages       970 non-null    object
18  country_flag    970 non-null    object
19  geoname_id      970 non-null    float64
20  isp             970 non-null    object
21  connection_type 0 non-null    float64
22  organization    967 non-null    object
23  currency        970 non-null    object
24  time_zone       970 non-null    object
25  message         5 non-null    object
dtypes: float64(5), int64(1), object(20)
memory usage: 198.2+ KB

```

En aquestes connexions, hi ha localitzacions de diferents països

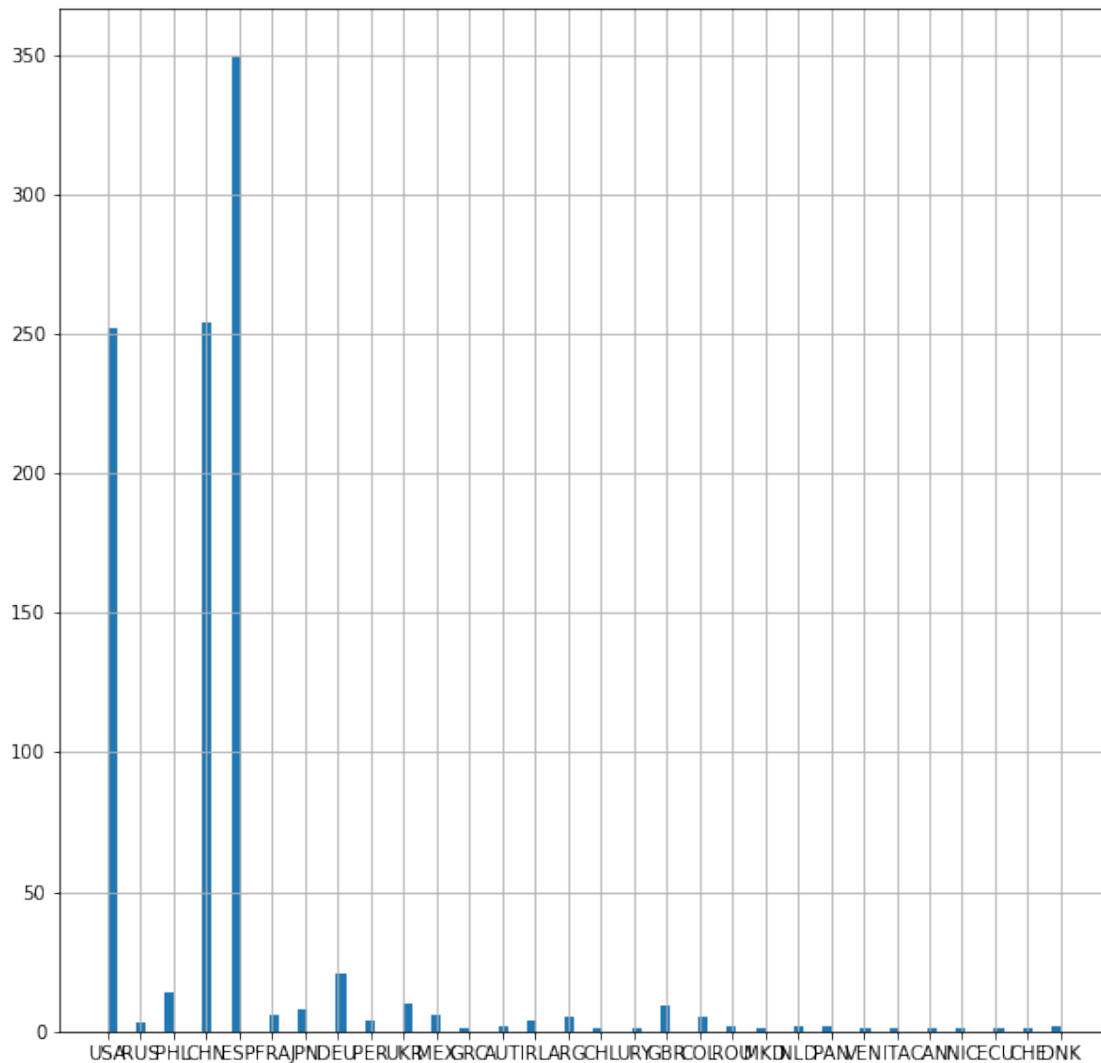
```
[34]: df_infoIP['country_code3'].unique()
```

```
[34]: array(['USA', nan, 'RUS', 'PHL', 'CHN', 'ESP', 'FRA', 'JPN', 'DEU', 'PER',
        'UKR', 'MEX', 'GRC', 'AUT', 'IRL', 'ARG', 'CHL', 'URY', 'GBR',
        'COL', 'ROU', 'MKD', 'NLD', 'PAN', 'VEN', 'ITA', 'CAN', 'NIC',
        'ECU', 'CHE', 'DNK'], dtype=object)
```

```
[6]: df_perEstat=df_infoIP['country_code3']
```

```
[7]: df_perEstat.hist(bins=100)
```

```
[7]: <AxesSubplot:>
```



2 Problemes per fer consultes reiterades...

```
[36]: tips['LAT']=tips['IPAddress'].apply(ip_scraping)
```

```
-----
JSONDecodeError                                Traceback (most recent call last)
<ipython-input-36-cc8e60aa91c7> in <module>
----> 1 tips['LAT']=tips['IPAddress'].apply(ip_scraping)

~\anaconda3\envs\geo\lib\site-packages\pandas\core\series.py in apply(self, func,
convert_dtype, args, **kwargs)
    4354         dtype: float64
    4355         """
```

```

-> 4356         return SeriesApply(self, func, convert_dtype, args, kwargs).
↳ apply()
   4357
   4358     def _reduce(

~\anaconda3\envs\geo\lib\site-packages\pandas\core\apply.py in apply(self)
   1034         return self.apply_str()
   1035
-> 1036         return self.apply_standard()
   1037
   1038     def agg(self):

~\anaconda3\envs\geo\lib\site-packages\pandas\core\apply.py in
↳ apply_standard(self)
   1090         # List[Union[Callable[..., Any], str]]]]"; expected
   1091         # "Callable[[Any], Any]"
-> 1092         mapped = lib.map_infer(
   1093             values,
   1094             f, # type: ignore[arg-type]

~\anaconda3\envs\geo\lib\site-packages\pandas\_libs\lib.pyx in pandas._libs.lib
↳ map_infer()

<ipython-input-20-1e1bf9ba00f6> in ip_scraping(ip)
    12     res = requests.get(api_url+ip, data=data)
    13     # Obtenemos y procesamos la respuesta JSON
---> 14     api_json_res = json.loads(res.content)
    15     return api_json_res
    16

~\anaconda3\envs\geo\lib\json\__init__.py in loads(s, cls, object_hook,
↳ parse_float, parse_int, parse_constant, object_pairs_hook, **kw)
   355         parse_int is None and parse_float is None and
   356         parse_constant is None and object_pairs_hook is None and no
↳ kw):
--> 357         return _default_decoder.decode(s)
   358     if cls is None:
   359         cls = JSONDecoder

~\anaconda3\envs\geo\lib\json\decoder.py in decode(self, s, _w)
   335
   336     """
--> 337     obj, end = self.raw_decode(s, idx=_w(s, 0).end())
   338     end = _w(s, end).end()
   339     if end != len(s):

~\anaconda3\envs\geo\lib\json\decoder.py in raw_decode(self, s, idx)

```

```

353         obj, end = self.scan_once(s, idx)
354     except StopIteration as err:
--> 355         raise JSONDecodeError("Expecting value", s, err.value) from
↪ None
356     return obj, end

```

JSONDecodeError: Expecting value: line 1 column 1 (char 0)

```
[37]: tips.head()
```

```

[37]:   ConnectPoint  IPAddress C1 C2          Date      Hour  TimeZ  \
0    localhost  127.0.0.1 - -   23/Feb/2014  03:10:31  +0100
1    localhost  127.0.0.1 - -   23/Feb/2014  03:10:31  +0100
2    localhost  127.0.0.1 - -   23/Feb/2014  03:10:31  +0100
3    localhost  127.0.0.1 - -   23/Feb/2014  03:10:31  +0100
4    localhost  127.0.0.1 - -   23/Feb/2014  03:10:31  +0100

      Message01  Resp C3          Message02      fi
0  OPTIONS * HTTP/1.0  200 - -  Apache (internal dummy connection)  VLOG==
1  OPTIONS * HTTP/1.0  200 - -  Apache (internal dummy connection)  VLOG==
2  OPTIONS * HTTP/1.0  200 - -  Apache (internal dummy connection)  VLOG==
3  OPTIONS * HTTP/1.0  200 - -  Apache (internal dummy connection)  VLOG==
4  OPTIONS * HTTP/1.0  200 - -  Apache (internal dummy connection)  VLOG==

```

Importo Geopandas per realitzar la visualització de les connexions geolocalitzades.

```

[39]: import geopandas
      # Código de comprobación del correcto funcionamiento del paquete "geopandas"
      path_to_data = geopandas.datasets.get_path("nybb")
      gdf = geopandas.read_file(path_to_data)

      gdf

```

```

[39]:   BoroCode      BoroName      Shape_Leng      Shape_Area  \
0         5  Staten Island  330470.010332  1.623820e+09
1         4         Queens  896344.047763  3.045213e+09
2         3     Brooklyn  741080.523166  1.937479e+09
3         1     Manhattan  359299.096471  6.364715e+08
4         2         Bronx  464392.991824  1.186925e+09

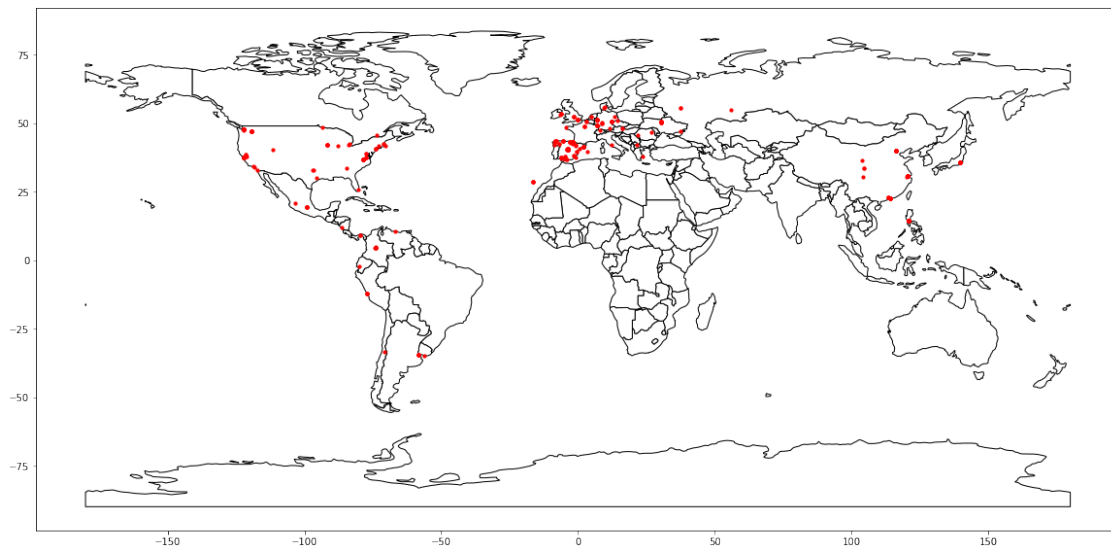
      geometry
0  MULTIPOLYGON (((970217.022 145643.332, 970227...
1  MULTIPOLYGON (((1029606.077 156073.814, 102957...
2  MULTIPOLYGON (((1021176.479 151374.797, 102100...
3  MULTIPOLYGON (((981219.056 188655.316, 980940...
4  MULTIPOLYGON (((1012821.806 229228.265, 101278...

```

Representem els punts de les connexions a partir de la latitud i la longitud obtinguda des de l'API

de geolocalització

```
[40]: #gdf = geopandas.GeoDataFrame(df, geometry=geopandas.points_from_xy(df.  
      ↪Longitude, df.Latitude))  
gdf = geopandas.GeoDataFrame(df_infoIP, geometry=geopandas.  
      ↪points_from_xy(df_infoIP['longitude'],df_infoIP['latitude']))  
#print(gdf.head())  
world = geopandas.read_file(geopandas.datasets.get_path('naturalearth_lowres'))  
  
# We restrict to South America.  
#ax = world[world.continent == 'Europe'].plot(color='white', edgecolor='black')  
ax = world.plot(color='white', edgecolor='black',figsize=(20, 20))  
  
# We can now plot our ``GeoDataFrame``.  
gdf.plot(ax=ax, color='r',markersize=10)  
  
plt.show()  
#world.plot()
```



Aquí només hi han aproximadament les primeres 1000 posicions , de la primera descarrega massiva a partir de la API. Les restants i l'estudi de l'apartat 3 es deixen per més endavant si hi ha temps disponible, per no endarrerir més la resta de Sprints.

[]: