

PRACTICA CON DATOS GEOESPACIALES CON LA LIBRERÍA FOLIUM

PRACTICA UNIDAD 5

ANALITICA DE DATOS EN LAS ORGANIZACIONES

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1. Contexto de la práctica

- En esta práctica se familiarizará con la librería Folium.
- Folium es una biblioteca para crear mapas interactivos.
- Utilizará la biblioteca GeoPandas.
- GeoPandas es una librería de Python de código abierto para trabajar con datos geoespaciales.
- Realizará un mapa choropleth para visualizar los números de pruebas COVID realizado en los estados de la república mexicana.
- Utilizará marcadores en los mapas para representar información por medio de tooltips.

GeoPandas

- Plotting with Folium: https://geopandas.org/en/stable/gallery/plotting_with_folium.html • GeoJSON_and_choropleth: https://notebook.community/QuLogic/folium/examples/GeoJSON_and_choropleth

Importar las librerías necesarias

```
In [1]: !pip install geopandas
```

```

Defaulting to user installation because normal site-packages is not writeable
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```

```

In [2]: import folium
import geopandas as gpd
import json
import pandas as pd

```

2. Mi primer mapa

```

In [3]: world_map = folium.Map()
world_map

```

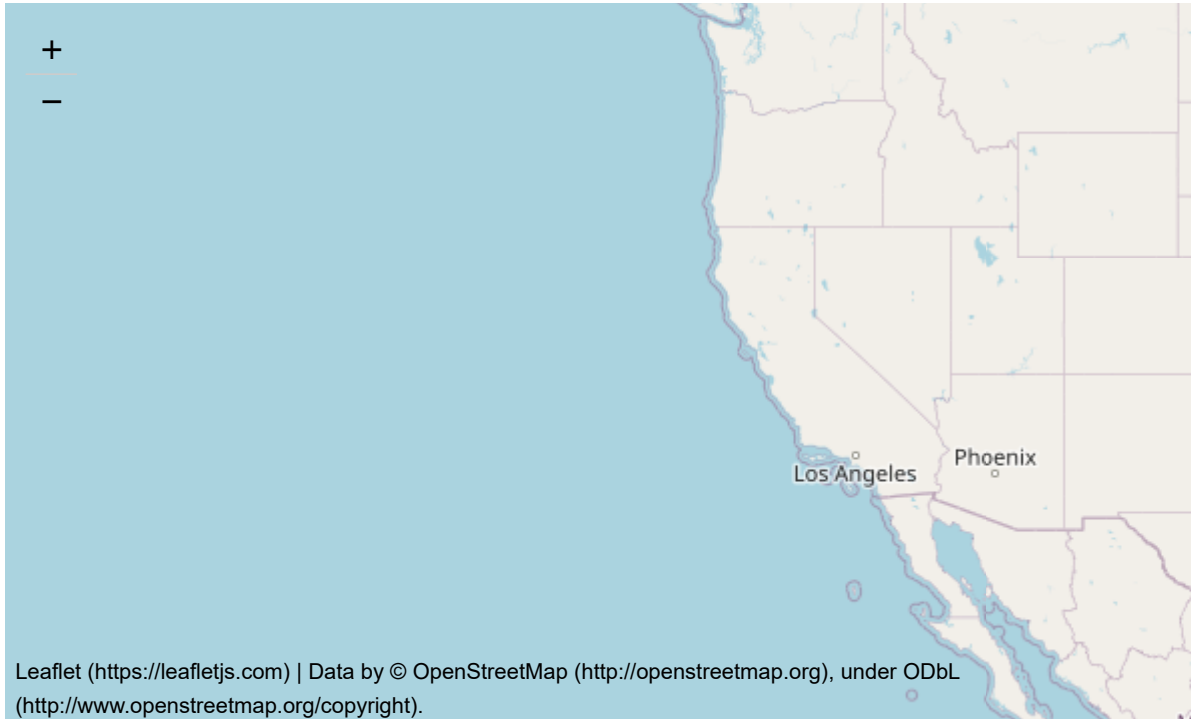
Out[3]: Make this Notebook Trusted to load map: File -> Trust Notebook



In [4]: *# Centrar el Mapa en México*

```
mexico_latitude = 23.6345  
mexico_longitude = -102.5528  
mexico_map = folium.Map(location = [mexico_latitude, mexico_longitude], zoom_start = 4)  
mexico_map
```

Out[4]:



3. Tipos de Mapas

3.1 Stamen Toner

Estos son mapas en blanco y negro de alto contraste. Se utilizan para explorar y visualizar meandros de ríos y zonas costeras.

```
In [5]: mexico_map2 = folium.Map(location=[24.0359, -104.6403], zoom_start=5, tiles='Stamen To  
mexico_map2
```

Out[5]:

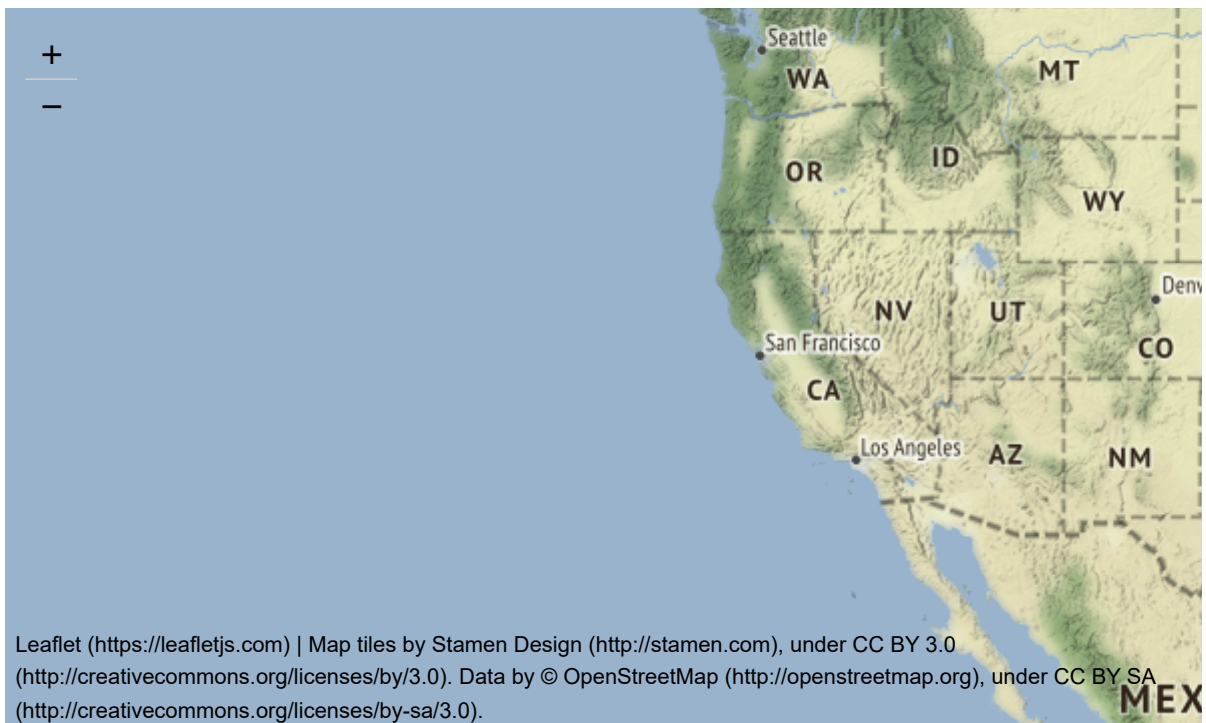


3.2 Mapas Stamen Terrain

- Estos mapas se utilizan para resaltar el sombreado de colinas y los colores de la vegetación natural.
- Muestran funciones de etiquetado avanzadas y generalización de carreteras de doble calzada.

```
In [6]: mexico_latitude = 23.6345  
mexico_longitude = -102.5528  
mexico_map3 = folium.Map(location = [mexico_latitude, mexico_longitude], zoom_start =  
mexico_map3
```

Out[6]:



3.3 Mapas Stamen Watercolor

- Representan el mapa usando efectos de color de agua

```
In [7]: mexico_latitude = 23.6345
mexico_longitude = -102.5528
mexico_map4 = folium.Map(location = [mexico_latitude, mexico_longitude], zoom_start =
mexico_map4
```

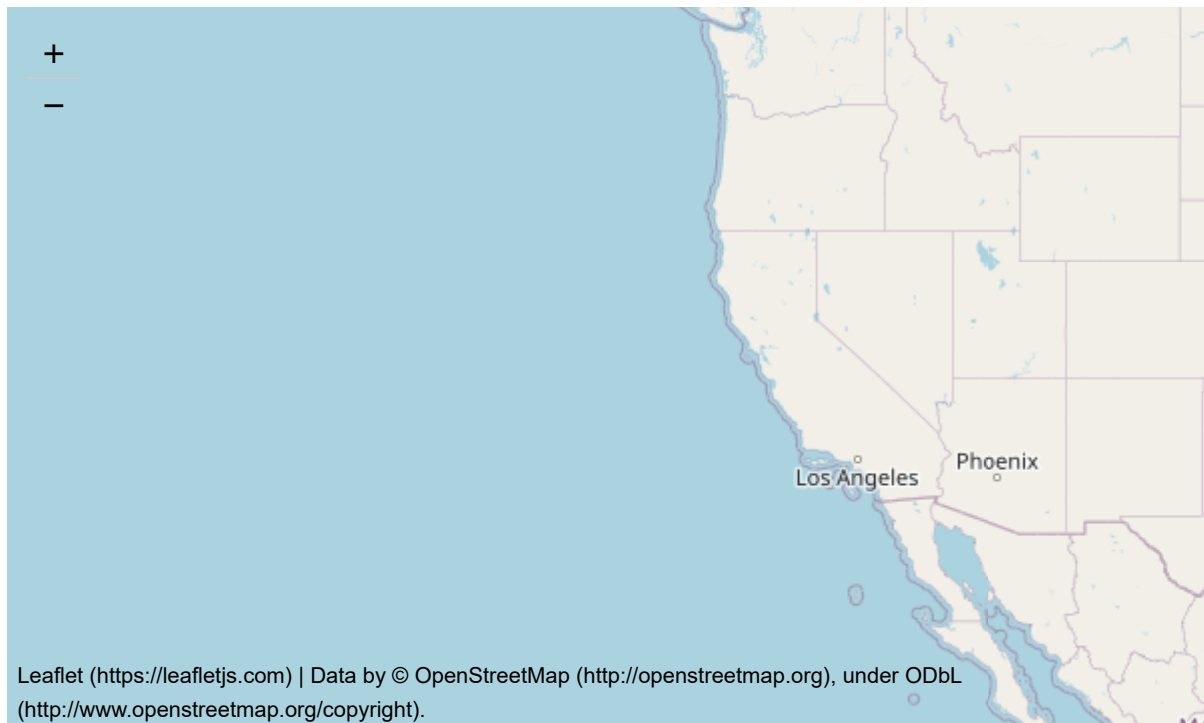
Out[7]:



- Mapa predeterminado

```
In [8]: mexico_latitude = 23.6345
mexico_longitude = -102.5528
mexico_map4 = folium.Map(location = [mexico_latitude, mexico_longitude], zoom_start =
mexico_map4
```

Out[8]:



4 GeoData GeoJSON

- GeoJSON es un formato de intercambio de datos geoespaciales de código abierto que representa entidades geográficas sencillas y sus atributos no espaciales.
- Basado en JavaScript Object Notation (JSON).
- GeoJSON es un formato para codificar estructuras de datos geográficos.
- Utiliza un sistema de referencia de coordenadas geográficas, el Sistema geodésico mundial de 1984 y unidades de grados decimales.

GeoJSON admite los siguientes tipos de entidad:

- Puntos (incluidos direcciones y ubicaciones)
- Cadenas de texto (direcciones, carreteras y límites)
- Polígonos (países, provincias, extensiones de tierra)
- Colecciones multiplarte de entidades de puntos, de cadenas de texto o de polígonos.

```
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geo_json_data
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        'id': 'MX-AGU',
        'CNTRY': 'Mexico',
        'TYPE': 'State'},
    'id': 'MX-AGU']}]}
```

```
In [10]: # Generar Mapa pasando como parametros una ubicación en formato de Latitud y Longitud
# Con un nivel de acercamiento de 5

mapaMX = folium.Map([24.0359, -104.6403], zoom_start=5)

# Pasar al mapa las coordenadas y polígonos georeferenciales de los estados
folium.GeoJson(geo_json_data).add_to(mapaMX)

#Mostrar mapa
mapaMX
```

Out[10]:



5. Mapas coropléticos (choropleth)

- Es un tipo de mapa temático en el que las áreas se somborean de distintos colores, frecuentemente de la misma gama cromática, que representan distintos valores de una variable estadística característica de esa región geográfica, como puede ser la densidad de población o el ingreso per cápita.
- Los mapas coropléticos son una forma sencilla de visualizar cómo varía una medida en un área geográfica o mostrar el nivel de variabilidad de esa medida dentro de una región.

Abrir archivo CSV con casos covid para mostrarlos en un mapa coropléticos

```
In [11]: # Reflejar el número de pruebas de La Base de datos Covid en el mapa
path = "C:/Users/yulis/Analitica de los Datos en las organizaciones/Data/20-07-31-COVID.csv"
covid = pd.read_csv(path, encoding = 'ISO-8859-1')
covid.head()
```

```
C:\Users\yulis\AppData\Local\Temp\ipykernel_13560\3651887530.py:3: DtypeWarning: Columns (33) have mixed types. Specify dtype option on import or set low_memory=False.
covid = pd.read_csv(path, encoding = 'ISO-8859-1')
```

Out[11]:

	FECHA_ACTUALIZACION	ID_REGISTRO	ORIGEN	SECTOR	ENTIDAD_UM	SEXO	ENTIDAD_NAC
0	31/07/2020	15f43a	2	4	2	Mujer	No especificado
1	31/07/2020	0d6511	2	4	11	Hombre	No especificado
2	31/07/2020	0baff6	2	9	9	Mujer	No especificado
3	31/07/2020	1b5b75	2	9	9	Mujer	No especificado
4	31/07/2020	120290	2	9	15	Mujer	No especificado

5 rows × 35 columns

In [12]: covid.shape

Out[12]: (984288, 35)

In [13]: covid["Total"]=0

Crear el dataframe **df_totalcasos** con el numero de casos por estado. Hacer un diccionario para mapear los números de Id de cada estado por el id usado en los datos georeferenciados en el archivo JSON

```
In [14]: df_totalcasos = covid[['ENTIDAD_NAC', "Total"]]
df_totalcasos = df_totalcasos.groupby(['ENTIDAD_NAC']).count().reset_index()
df_totalcasos
```

Out[14]:

	ENTIDAD_NAC	Total
0	Aguascalientes	10872
1	Baja California	14281
2	Baja California Sur	7072
3	Campeche	7441
4	Chiapas	12611
5	Chihuahua	11562
6	Ciudad de México	207714
7	Coahuila	35351
8	Colima	3120
9	Durango	14551
10	Guanajuato	50623
11	Guerrero	25001
12	Hidalgo	13560
13	Jalisco	39303
14	Michoacan	31085
15	Morelos	8248
16	México	112236
17	Nayarit	7206
18	No especificado	4878
19	Nuevo León	41314
20	Oaxaca	23198
21	Puebla	43654
22	Queretaro	5528
23	Quintana Roo	6448
24	San Luis Potosí	26609
25	Sinaloa	27701
26	Sonora	27003
27	Tabasco	39673
28	Tamaulipas	37945
29	Tlaxcala	13004
30	Veracruz	46019
31	Yucatan	20486
32	Zacatecas	8991

```
In [15]: mapping_dict = { "Aguascalientes":"MX-AGU", "Baja California":"MX-BCN", "Baja Californi
    "Chiapas":"MX-CHP", "Chihuahua":"MX-CHH", "Ciudad de MÃ©xico":"MX-CMX",
    "Hidalgo":"MX-HID", "Jalisco":"MX-JAL", "MÃ©xico":"MX-MEX", "Michoacan'
    "Nuevo LeÃ³n":"MX-NLE", "Oaxaca":"MX-OAX", "Puebla":"MX-PUE", "Queretar
    "Sinaloa":"MX-SIN", "Sonora":"MX-SON", "Tabasco":"MX-TAB", "Tamaulipas'
    "Yucatan":"MX-YUC", "Zacatecas":"MX-ZAC", "No especificado":"MX-XXX"
df_totalcasos['ENTIDAD_NAC'] = df_totalcasos.ENTIDAD_NAC.map(mapping_dict)
```

```
In [16]: df_totalcasos.sort_values("Total")
```


Out[16]:

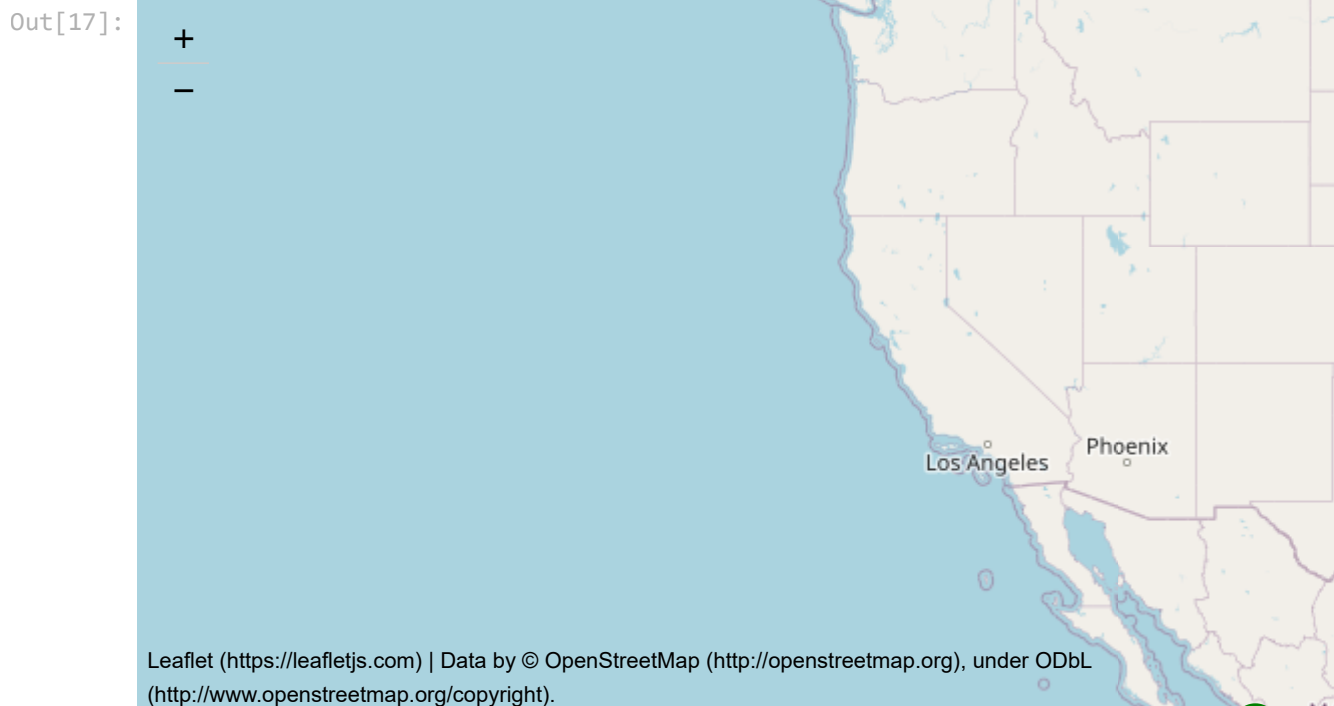
	ENTIDAD_NAC	Total
8	MX-COL	3120
18	MX-XXX	4878
22	MX-QUE	5528
23	MX-ROO	6448
2	MX-BCS	7072
17	MX-NAY	7206
3	MX-CAM	7441
15	NaN	8248
32	MX-ZAC	8991
0	MX-AGU	10872
5	MX-CHH	11562
4	MX-CHP	12611
29	MX-TLA	13004
12	MX-HID	13560
1	MX-BCN	14281
9	MX-DUR	14551
31	MX-YUC	20486
20	MX-OAX	23198
11	MX-GRO	25001
24	NaN	26609
26	MX-SON	27003
25	MX-SIN	27701
14	MX_MOR	31085
7	MX-COA	35351
28	MX-TAM	37945
13	MX-JAL	39303
27	MX-TAB	39673
19	MX-NLE	41314
21	MX-PUE	43654
30	MX-VER	46019
10	MX-GUA	50623
16	MX-MEX	112236
6	MX-CMX	207714

7. Tooltips

- El tooltip se activa al pasar sobre el circulo

```
In [17]: coordenadas1 = [23.242943, -106.428460]

mexico_map4.add_child(folium.CircleMarker(location = coordenadas1,
                                           radius = 10,
                                           color = 'green',
                                           fill = True,
                                           fill_color = 'blue',
                                           fill_opacity = 0.6,
                                           tooltips = "Total_Casos:" + str(df_totalcasos.TotalC
```



8. Integrar datos y marcadores en mapa

```
In [18]: pd_geoEstados = pd.read_csv("C:/Users/yulis/Analitica de los Datos en las organizacion/geoEstados.csv")
pd_geoEstados.head()
```

Out[18]:

	Clave	Estado	Latitud	Longitud
0	MX-AGU	Aguascalientes	21.882340	-102.282590
1	MX-BCN	Baja California	30.441883	-115.140850
2	MX-BCS	Baja California Sur	23.939971	-110.443570
3	MX-CAM	Campeche	19.539189	-89.646626
4	MX-COA	Coahuila	28.198710	-102.678149

```
In [19]: estadosMerge = pd.merge(df_totalcasos, pd_geoEstados, left_on="ENTIDAD_NAC",
                                right_on="Clave")
estadosMerge.head()
```

```
Out[19]:
```

	ENTIDAD_NAC	Total	Clave	Estado	Latitud	Longitud
0	MX-AGU	10872	MX-AGU	Aguascalientes	21.882340	-102.282590
1	MX-BCN	14281	MX-BCN	Baja California	30.441883	-115.140850
2	MX-BCS	7072	MX-BCS	Baja California Sur	23.939971	-110.443570
3	MX-CAM	7441	MX-CAM	Campeche	19.539189	-89.646626
4	MX-CHP	12611	MX-CHP	Chiapas	16.251698	-92.866634

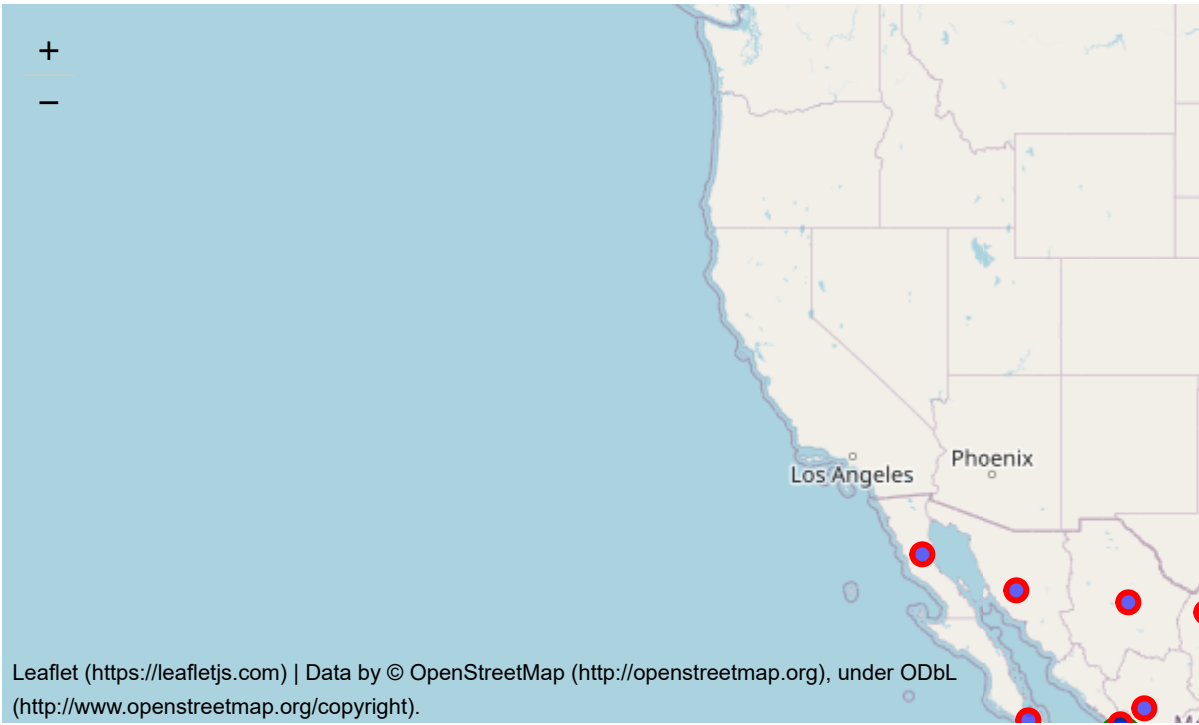
```
In [20]: estadosMerge = estadosMerge[["Clave", "Estado", "Latitud", "Longitud", "Total"]]
estadosMerge.head()
```

```
Out[20]:
```

	Clave	Estado	Latitud	Longitud	Total
0	MX-AGU	Aguascalientes	21.882340	-102.282590	10872
1	MX-BCN	Baja California	30.441883	-115.140850	14281
2	MX-BCS	Baja California Sur	23.939971	-110.443570	7072
3	MX-CAM	Campeche	19.539189	-89.646626	7441
4	MX-CHP	Chiapas	16.251698	-92.866634	12611

```
In [21]: for lat, lng, label, label2 in zip(estadosMerge.Latitud, estadosMerge.Longitud,
                                            estadosMerge.Estado, estadosMerge.Total):
    folium.CircleMarker(
        [lat, lng],
        radius=5,
        color='red',
        fil=True,
        fill_color='blue',
        fill_opacity=0.6,
        tooltip="Estado:"+str(label) + '<br>' +
                "Total_Casos:" + str(label2)).add_to(mexico_map4)
mexico_map4
```

Out[21]:



In []: