API GOOGLE

HABILITAR API

STEP 1 Como habilitar mi api key en Google Cloud Platform

-> Entrar https://console.cloud.google.com/

-> Seleccionar el proyecto : Sistecem

-> Buscar: apis & services y seleccionarlo

-> Seleccionar Biblioteca

-> Seleccionar Mapas -> Ver todos

-> Seleccionar Maps Static API -> Habilitar -> F5 -> Administrar

-> Seleccionar Credenciales -> En aqui nos muestra el Api Key que usaremos en nuestrtas Apps

-> La primera ves te debes crear una credencial -> Create credentials -> Api key

(No genera la api) -> Restrict Key (Podemos cambiarle el nombre, restringirlo por tipo Apps, etc)

->

Ejm <https://console.cloud.google.com/google/maps-apis/credentials?project=sistecem>

1. Center Este parametro puede recibir las coordenadas o el nombre de la direccion

https://maps.googleapis.com/maps/api/staticmap?center=Berkeley,CA&zoom=14&size=400x400&key=YOUR\_API\_KEY&signature=YOUR\_SIGNATURE

2 Zoom Niveles 1: World , 5: Landmass/continent, 10: City, 15: Streets, 20: Buildings

https://maps.googleapis.com/maps/api/staticmap?center=40.714728,-73.998672&zoom=12&size=400x400&key=YOUR\_API\_KEY&signature=YOUR\_SIGNATURE

https://maps.googleapis.com/maps/api/staticmap?center=40.714728,-73.998672&zoom=14&size=400x400&key=YOUR\_API\_KEY&signature=YOUR\_SIGNATURE

3 Image Formato gif, png, jpg Tamañp scale=1, scale=2, 640x640

https://maps.googleapis.com/maps/api/staticmap?center=0,0&zoom=1&size=400x50&key=YOUR\_API\_KEY&signature=YOUR\_SIGNATURE

https://maps.googleapis.com/maps/api/staticmap?center=0,0&zoom=1&size=100x100&key=YOUR\_API\_KEY&signature=YOUR\_SIGNATURE

4 Tipos de mapa

-> roadmap (default) specifies a standard roadmap image, as is normally shown on the Google Maps website. If no maptype value is specified, the Maps Static API serves roadmap tiles by default.

Example You can see the difference between roadmap and terrain

https://maps.googleapis.com/maps/api/staticmap?center=40.714728,-73.998672&zoom=12&size=400x400&maptype=roadmap&key=YOUR\_API\_KEY&signature=YOUR\_SIGNATURE

https://maps.googleapis.com/maps/api/staticmap?center=40.714728,-73.998672&zoom=12&size=400x400&maptype=terrain&key=YOUR\_API\_KEY&signature=YOUR\_SIGNATURE

-> satellite specifies a satellite image.

-> terrain specifies a physical relief map image, showing terrain and vegetation.

-> hybrid specifies a hybrid of the satellite and roadmap image, showing a transparent layer of major streets and place names on the satellite image.

Example Hybrid maps use satellite images and prominent roadmap features to create a combination map.

https://maps.googleapis.com/maps/api/staticmap?center=40.714728,-73.998672&zoom=12&size=400x400&maptype=satellite&key=YOUR\_API\_KEY&signature=YOUR\_SIGNATURE

https://maps.googleapis.com/maps/api/staticmap?center=40.714728,-73.998672&zoom=12&size=400x400&maptype=hybrid&key=YOUR\_API\_KEY&signature=YOUR\_SIGNATURE

5 Marker Parametros size, color, label

Example1 A sample marker declaration is shown here. Note that we define one set of styles and three locations:

https://maps.googleapis.com/maps/api/staticmap?center=Williamsburg,Brooklyn,NY&zoom=13&size=400x400&

markers=color:blue%7Clabel:S%7C11211%7C11206%7C11222&key=YOUR\_API\_KEY&signature=YOUR\_SIGNATURE

Example 2 To define markers with differing styles, we need to supply multiple markers parameters. This set of markers parameters defines three markers: one blue marker labeled "S" at 62.107733, -145.5419, one tiny green marker at "Delta Junction, AK", and one mid-sized yellow marker labeled "C" at "Tok, AK". These markers are shown in this example:

https://maps.googleapis.com/maps/api/staticmap?center=63.259591,-144.667969&zoom=6&size=400x400

&markers=color:blue%7Clabel:S%7C62.107733,-145.541936&markers=size:tiny%7Ccolor:green%7CDelta+Junction,AK

&markers=size:mid%7Ccolor:0xFFFF00%7Clabel:C%7CTok,AK"&key=YOUR\_API\_KEY&signature=YOUR\_SIGNATURE

Example 3 creates custom icons and positions the icons using anchors.

http://maps.googleapis.com/maps/api/staticmap?&size=600x400&style=visibility:on

&style=feature:water%7Celement:geometry%7Cvisibility:on

&style=feature:landscape%7Celement:geometry%7Cvisibility:on

&markers=anchor:32,10%7Cicon:https://goo.gl/5y3S82%7CCanberra+ACT

&markers=anchor:topleft%7Cicon:http://tinyurl.com/jrhlvu6%7CMelbourne+VIC

&markers=anchor:topright%7Cicon:https://goo.gl/1oTJ9Y%7CSydney+NSW&key=YOUR\_API\_KEY

&signature=YOUR\_SIGNATURE

<script src="https://maps.googleapis.com/maps/api/js?key= AIzaSyDuRB47xeByJio9d8KEDW41xnA5E-C3xFg&callback=iniciarMap"></script>

<script src="https://maps.googleapis.com/maps/api/js?key= AIzaSyDuRB47xeByJio9d8KEDW41xnA5E-C3xFg&callback=iniciarMap"></script>

https://maps.googleapis.com/maps/api/staticmap?center=Berkeley,CA&zoom=14&size=400x400&key= AIzaSyDuRB47xeByJio9d8KEDW41xnA5E-C3xFg

src=[https://maps.googleapis.com/maps/api/js?key= AIzaSyDuRB47xeByJio9d8KEDW41xnA5E-C3xFg&callback=iniciarMap](https://maps.googleapis.com/maps/api/js?key=%20AIzaSyDuRB47xeByJio9d8KEDW41xnA5E-C3xFg&callback=iniciarMap)

<img src="https://maps.googleapis.com/maps/api/staticmap

?center=-15.800513,-47.91378

&zoom=11

&size=300x300

&client=YOUR\_CLIENT\_ID

&signature=SIGNATURE">

<img t-att-src=" https://maps.googleapis.com/maps/api/staticmap?center=Berkeley,CA&zoom=14&size=400x400&key= AIzaSyDuRB47xeByJio9d8KEDW41xnA5E-C3xFg " style="height: 230px; " alt="Grafico 3"/>

<img src="https://maps.googleapis.com/maps/api/staticmap?center=Berkeley,CA&zoom=14&size=400x400&key= AIzaSyDuRB47xeByJio9d8KEDW41xnA5E-C3xFg"></img>

https://maps.googleapis.com/maps/api/staticmap?center=40.714728,-73.998672&zoom=12&size=400x400&maptype=terrain&key= AIzaSyDuRB47xeByJio9d8KEDW41xnA5E-C3xFg &signature=YOUR\_SIGNATURE

http://maps.google.com/maps/api/staticmap?center=37.8654938,-4.7791247&zoom=14&size=512×512&maptype=roadmap&markers=color:blue|label:M|37.8654938,-4.7791247&sensor=false.

GEOCODING

https://maps.googleapis.com/maps/api/geocode/json?address=1600+Amphitheatre+Parkway,+Mountain+View,+CA&key= AIzaSyDuRB47xeByJio9d8KEDW41xnA5E-C3xFg

https://maps.googleapis.com/maps/api/geocode/json?address=pozos&key=AIzaSyDuRB47xeByJio9d8KEDW41xnA5E-C3xFg

GEOLOCALIZACION

Script: https://c43s4rs.blogspot.com/2018/02/scripts-de-geolocalizacion-en-python.html

https://www.googleapis.com/geolocation/v1/geolocate?key=AIzaSyDuRB47xeByJio9d8KEDW41xnA5E-C3xFg