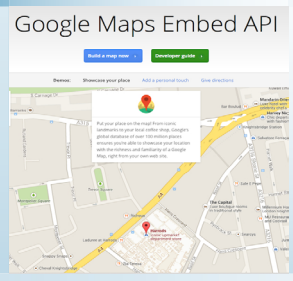
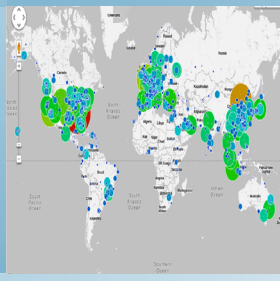
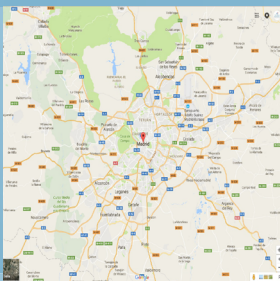
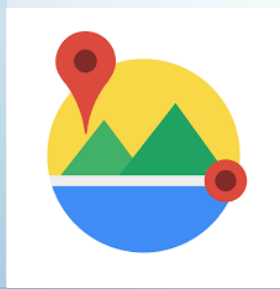
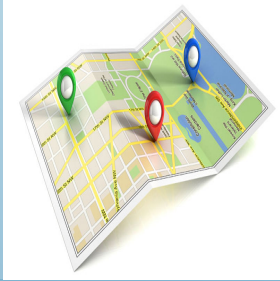
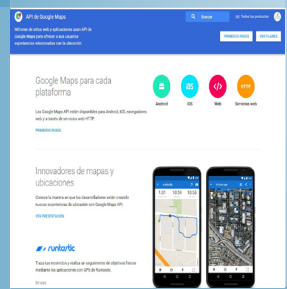
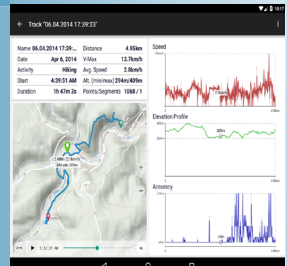
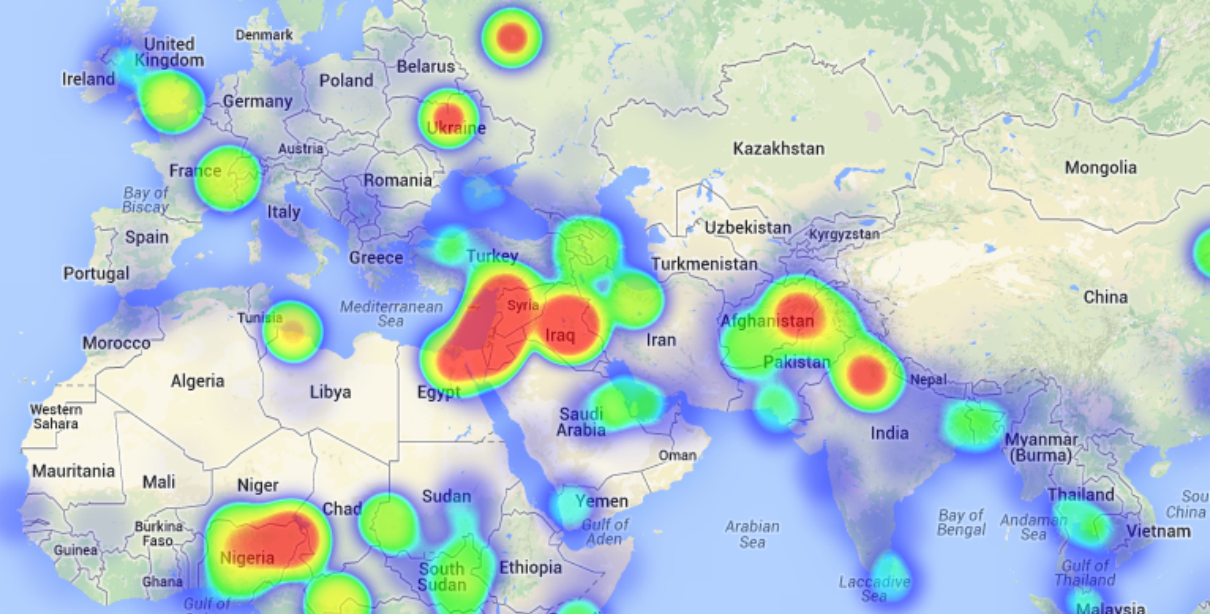
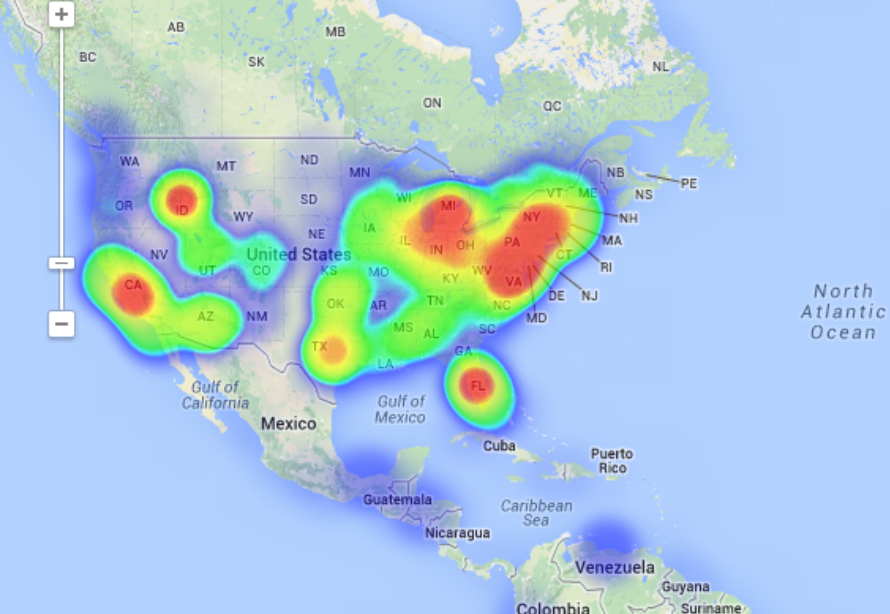


PROGRAMMING USING GOOGLE MAPS API

ONLINE TRAINING





COURSE



El curso plantea abarcar muchos aspectos del potencial de la API de *Google Maps* para que el alumno pueda desarrollar mapas Web dinámicos.

Se formará al alumno desde la base de la programación de la API, pasando por la implantación de diferentes tipos de herramientas, la inclusión de diferentes formatos de datos provenientes de distintas fuentes, hasta llegar a crear eventos y trabajar con la geocodificación y el servicio *Google Elevation*.



GOALS



- Get familiar with Google Maps API and with the features and functionalities that can help you create a cartographic viewer.
- Demonstrate which are the essential Google Maps API tools and how they work, in order to learn how to carry out practical applications and execute the necessary actions in different projects.
- Introduce and teach the student in the programming language used by Google API.
- Work with services and events associated with the API, in order to allow the improvement of web mapping functionalities and capabilities.
- Practice your new developed skills through practical exercises and examples provided by our instructors.



METHODOLOGY

Enrolled students in this online course will have access to our virtual e-learning platform (which is available 24 hours), where they will find the content of the course, practical exercises, forum discussion and additional content. One of the advantages of this online platform, is that students can benefit of real time support and assistance offered by the instructor (2 hours per week), whom they can contact via direct messages, regarding course related issues, at any moment. They can also contact the instructor via email.

PERFILES



The course is aimed at professionals of the GIS world who, with knowledge or not of programming, want to know all the possibilities that programming with Google Maps API offers.

INSTRUCTORS



Chencho Martín Lagunas

GIS Developer with extensive experience in Full-Stack software development, specialized in GIS data analysis and pre-processing using Python.



Alberto Santos Estévez

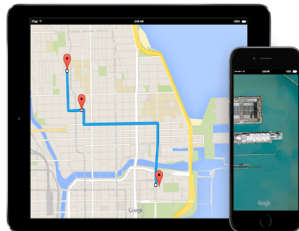
Consultant and Geospatial Developer with more than 15 years' experience in GIS integrated solutions and high performance systems.





INTRODUCTION TO PROGRAMMING USING GOOGLE MAPS API

Google Maps capabilities
 Free for non-commercial use
 Google Maps Premier license
 Basic Map-Code
 Google Maps API versions and releases
 Browsers compatibility
 Google Maps API documentation



BASIC CONCEPTS OF GOOGLE MAPS API

How to create a map?
 Importing data into Google Maps API
 Create Google Maps Container
 Customize map options and create a new map object (using Map Object)
 Load the map with an initialization function
 Create custom controls for the map
 GUI, Default Graphical User Interface/ The Default UI
 Add custom controls to the map
 Configure Controls
 Control positioning

- Zoom level control
- Navigation controller (Pan tool)
- Toggle between map types (MapTypeControl)
- Guide map control (OverviewMapControl)
- Scale control (ScaleControl)
- StreetView control (StreetViewControl)

Adding custom map overlays
 Remove an overlay
 Markers. Putting interactive markers in Google Maps API
 Simple bookmark icons
 Complex icons
 Google Maps icon collection
 Info Windows for markers
 InfoWindow class
 Add various shapes to your map: Polylines and Polygons, Circles, Rectangles
 Ground Overlay option
 Layers. Use map layers – general overview
 KML Layers – Display and manage KML layers
 KML and GeorSS Layers
 Google Fusion Tables (FusionTablesLayer object),
 Fusion Table Queries
 Creating a heat map using Fusion Tables
 Traffic Layer
 Bicycling layer

MAP EVENTS

What are the events?
 Manipulate the events
 Handling Events, Do I have to respond to each event?
 Types of events
 User interface events (UI Events)
 Model-View-Controller Events (MVC Events)
 Registering Events
 Accessing arguments in UI events
 Removing Event Listeners

GOOGLE MAPS GEOCODING API

What is geocoding?
 • The geocoding process
 • The GeocodeRequest object
 • The Geocoder object
 • The GeocoderResults object
 • The GeocoderAddressComponent object
 • The GeocoderGeometry object
 • The GeocoderLocationType object
 • Status Codes

 Reverse Geocoding. Results
 Goggle Elevation services
 Introduction to Google Maps Elevation service
 Elevation service processes
 Elevation Requests
 The ElevationService object
 The ElevationResult object
 The ElevationStatus object
 Example





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