Google Maps ¿Where do you start?

Fermin Blanco, Google Developers Club

Date

¿What do you want to do?

- Plan a route
- Visualize features and arbitrary data on a map
- Visualize the intensity of data about population density, temperature, traffic congestion
- Visualize JSON/KML data on a map
- Draw polygons, rectangles, polylines, circles, markers, and info windows on a map

¿What do you want to do?

- Add an image to a map, as a overlay at a specified location
- Add stand-alone Street View panoramas
- Customize the look a map
- Show public transport routes on a map
- Get directions from origin to destination location

Which API do I need?

The API picker lists the most common things you may want to do on a map or with location-based data, and suggests the API that most suits your needs. For details about each API, follow the links to the related documentation.

Type your keyword here to find the right API

What do you want to do?	Useful APIs:
Add a map to an Android mobile app. Decide whether you want to support map gestures for tilt, rotate, zoom and scroll. Have full control over the 3D camera with interactive tilt, bearing, zoom and pan.	Google Maps Android API v2
Add a map to an iOS mobile app. Decide whether you want to support map gestures for tilt, rotate, zoom and scroll. Have full control over the 3D camera with interactive tilt, bearing, zoom and pan.	Google Maps SDK for iOS
Retrieve an interactive map for display on a web	Google Maps Embed API (a web service)

API access

- All Maps API applications should load the Maps API using un API key. Using an API key enables you to monitor your application's Maps API usage, and ensures that Google can contact you about your application if necessary (Google Developers Doc).

Google Developers Console AFSorganization

- Overview
- Permissions

APIs & auth

- APIs
- Credentials
- Consent screen
- Push

Monitoring

- Traces
- Logs
- Dashboards & alerts

Source Code

Deploy & Manage

Compute

Networking

Storage

Big Data

- BigQuery
- Cloud Dataflow
- Pub/Sub

OAuth

OAuth 2.0 allows users to share specific data with you (for example, contact lists) while keeping their usernames, passwords, and other information private.

Learn more

Create new Client ID

No client IDs found.

API Access

Public API access

Use of this key does not require any user action or consent, does not grant access to any account information, and is not used for authorization.

Learn more

Create new Key

Key for browser applications

API key	AIzaSyAGgZXM1elb5mQfAKZOjRHWd5ihJ90IFTY
Referrers	Any referrer allowed
Activation date	Oct 27, 2013, 5:59:00 AM
Activated by	luillyfe89@gmail.com (you)

Edit allowed referrers Regenerate key Delete

My First App

- We declare the application as HTML5 using the <!DOCTYPE html> declaration.
- We include de Maps API Javascript using a script tag
- We create a div element named “map-canvas” to hold de map
- We create a Javascript object literal to hold a number of map properties
- We create a Javascript “map” object, passing it the div element and the map properties
- We use an event listener to load the map after the page has loaded

FOLDERS

- Maps
  - node_modules
  - Gruntfile.js
  - index.html
  - package.json

package.json | Gruntfile.js | index.html

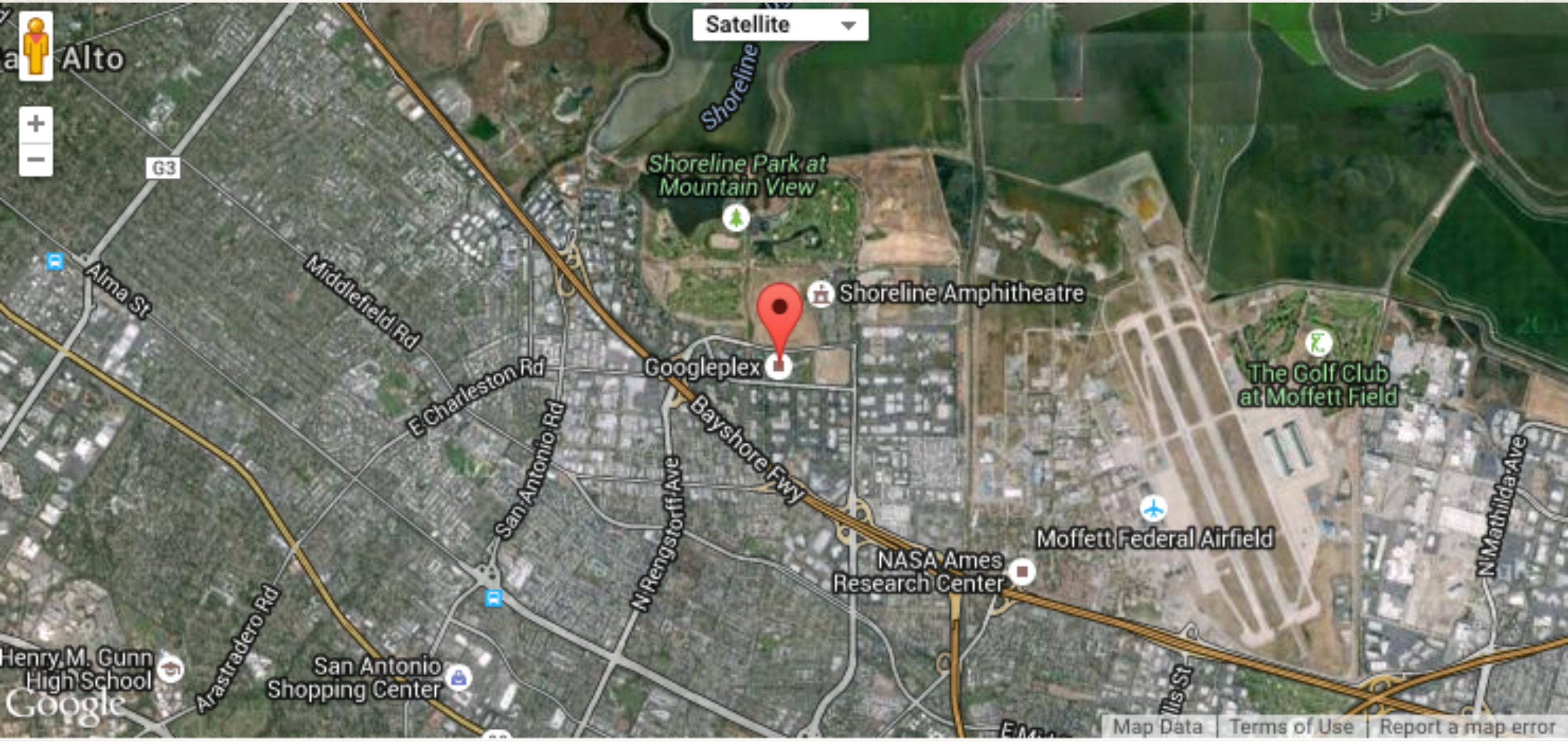
```
<!DOCTYPE html>
<html>
  <head>
    <style type="text/css">
      html, body, #map-canvas { height: 100%; margin: 0; padding: 0;}
    </style>
    <script type="text/javascript"
      src="https://maps.googleapis.com/maps/api/js?key=AIzaSy[redacted]">
    </script>
    <script type="text/javascript">
      function initialize() {
        var mapOptions = {
          center: { lat: 4.5833, lng: -74.0667},
          zoom: 5
        };

        var map = new google.maps.Map(document.getElementById('map-canvas'),
            mapOptions);
        }
        google.maps.event.addDomListener(window, 'load', initialize);
      </script>
    </head>
    <body>
  <div id="map-canvas"></div>
    </body>
</html>
```

1. Cross-browser compliant
2. Incluimos el api de javascript
3. Incluimos la clave de navegador
4. Creamos las propiedades del mapa
5. Creamos el mapa
6. Creamos un contenedor donde vizualizar el mapa
7. Creamos un receptor de eventos

Line 26, Column 8 | Spaces: 2 | HTML

Google Map Types

- MapTypeId.ROADMAP
- MapTypeId.SATELLITE
- MapTypeId.HYBRID
- MapTypeId.TERRAIN


Satellite
Shoreline
Shoreline Park at Mountain View
Shoreline Amphitheatre
Googleplex
The Golf Club at Moffett Field
Moffett Federal Airfield
NASA Ames Research Center
Alto
G3
Alma St
Middlefield Rd
E Charleston Rd
San Antonio Rd
N Rengstorff Ave
Bayshore Fwy
N Mathilda Ave
Arastradero Rd
Henry M. Gunn High School
San Antonio Shopping Center
Google
Map Data
Terms of Use
Report a map error

45 Perspective

Geocoding

- Geocoding is the process of converting addresses (*like "Calle 32A # 69 C2"*) into geographic coordinates (*like latitude: 6.234921 y longitude: -75.591309*), which you can use to place markers on a map, or position the map

Best Practices

- All Google Maps APIs is available over HTTPS, using HTTPS whenever possible

- Whenever possible, pre-geocode know addresses and store your results in a temporary cache of your own design