



Social Media Apps Programming

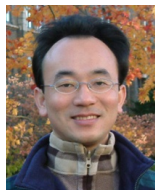
Google Map API

1061SMAP12

TLMXM1A (8648) (M2143) (Fall 2017)

(MIS MBA) (2 Credits, Elective) [Full English Course]

Fri 8,9 (15:10-17:00) B206



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Assistant Professor

Department of Information Management

Tamkang University

<http://mail.tku.edu.tw/myday>

2017-12-22



Course Schedule (1/2)



Tamkang
University

Week	Date	Subject/Topics
1	2017/09/22	Course Orientation and Introduction to Social Media and Mobile Apps Programming
2	2017/09/29	Introduction to Android / iOS Apps Programming
3	2017/10/06	Developing Android Native Apps with Java (Android Studio)
4	2017/10/13	Developing iPhone / iPad Native Apps with Swift (XCode)
5	2017/10/20	Mobile Apps using HTML5/CSS3/JavaScript
6	2017/10/27	jQuery Mobile
7	2017/11/03	Create Hybrid Apps with Phonegap
8	2017/11/10	jQuery Mobile/Phonegap
9	2017/11/17	jQuery Mobile/Phonegap

Course Schedule (2/2)



**Tamkang
University**

Week	Date	Subject/Topics
10	2017/11/24	Midterm Project Report
11	2017/12/01	Case Study on Social Media Apps Programming and Marketing in Google Play and App Store
12	2017/12/08	Google Cloud Platform
13	2017/12/15	Google App Engine
14	2017/12/22	Google Map API
15	2017/12/29	Facebook API (Facebook JavaScript SDK) (Integrate Facebook with iOS/Android Apps)
16	2018/01/05	Twitter API
17	2018/01/12	Final Project Presentation
18	2018/01/19	Final Exam Week (Final Project Presentation)

Google Maps API

<https://developers.google.com/maps/>

Google Maps API

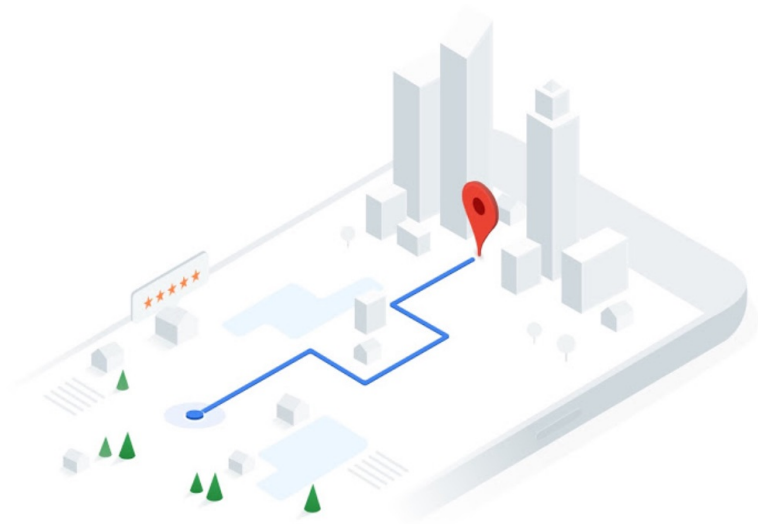
Build the next generation of location experiences

We have the world mapped. With more than one billion global monthly active users in over 200 countries, our data gives you accurate real-time information for mapping, navigation and places.



GET STARTED

CONTACT SALES



Google Scale

Build on the same infrastructure that Google Maps is built on for maximum app performance.

Global Coverage

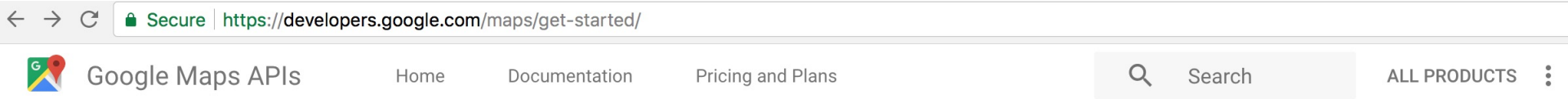
Provide your users with the reliable location information they need throughout the world.

Real-time Data

Build better user experiences with data based on real-time mapping and traffic signals.

Google Maps API

Get Started



Web APIs



Google Maps JavaScript API

Customize maps with your own content and imagery.



Google Places API JavaScript Library

Up-to-date information about millions of locations.



Google Static Maps API

Simple, embeddable map image with minimal code.



Google Maps Embed API

Add a Google Map to your site without code or quota limits.



Google Street View Image API

Real-world imagery and panoramas.

<https://developers.google.com/maps/get-started/>

Google Maps API

Google Maps JavaScript API

← → ↻ Secure | <https://developers.google.com/maps/documentation/javascript/> ☆

Google Maps APIs Home **Documentation** Pricing and Plans

Search ALL PRODUCTS

Web > Maps JavaScript API

Customize maps with your own content and imagery.

GET A KEY VIEW PRICING AND PLANS

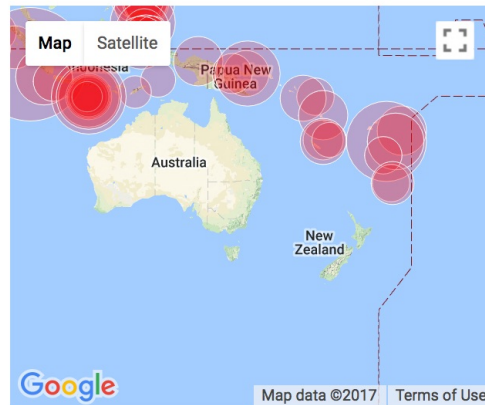
OVERVIEW GUIDES REFERENCE SAMPLES SUPPORT SEND FEEDBACK

Tutorials

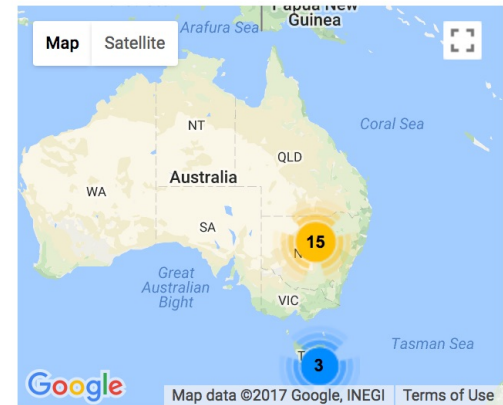
Choose one of these tutorials or [see them all](#).



Create a Map with a Marker



Visualize Data



Create Marker Clusters

<https://developers.google.com/maps/documentation/javascript/>

Google Maps JavaScript API

← → ↻  Secure | <https://developers.google.com/maps/documentation/javascript/> ☆



Google Maps APIs

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Documentation

Pricing and Plans



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ALL PRODUCTS



OVERVIEW

GUIDES

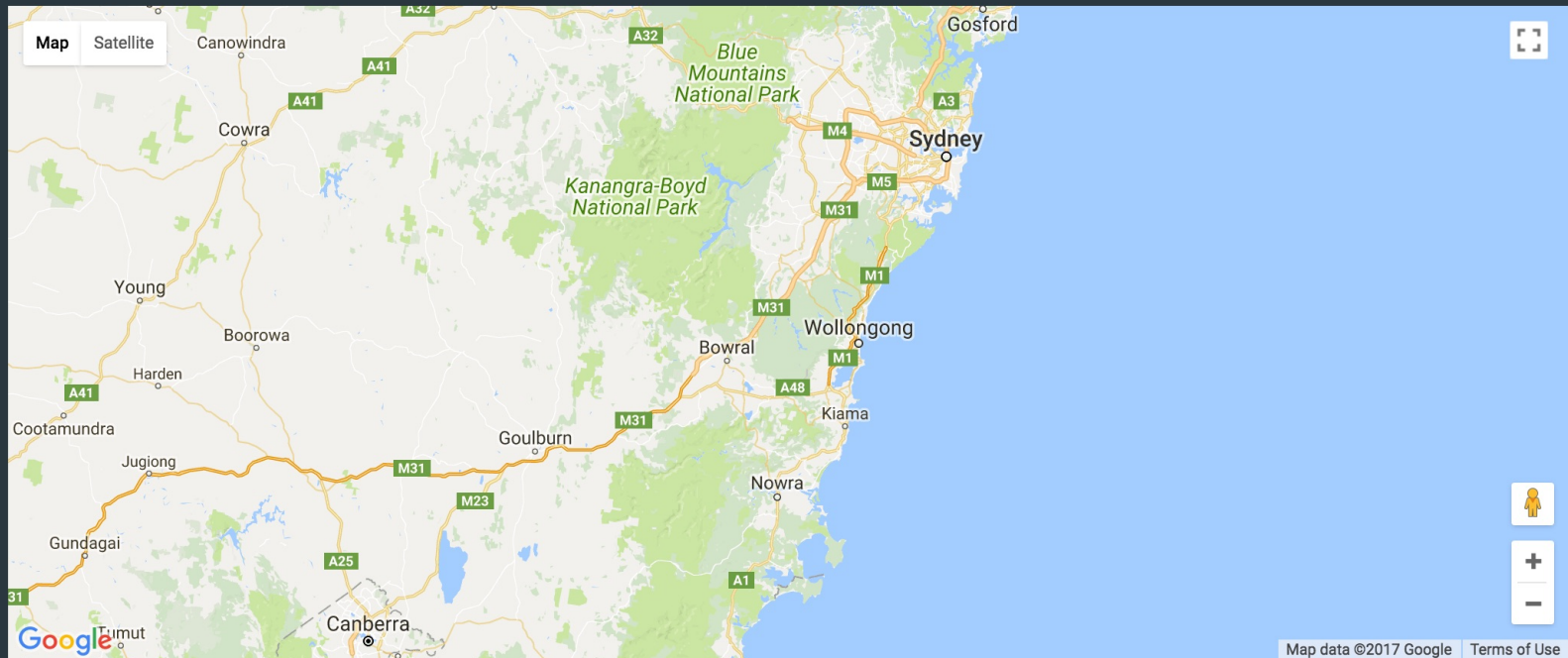
REFERENCE

SAMPLES

SUPPORT

SEND FEEDBACK

Demos and sample code



BASE MAPS

STYLED MAPS

SATELLITE

DIRECTIONS

MARKERS

```
<!DOCTYPE html>
<html>
<head>
```

<https://developers.google.com/maps/documentation/javascript/>

Google Maps JavaScript API

Base Maps

```
<!DOCTYPE html>
<html>
  <head>
    <!-- This stylesheet contains specific styles for displaying the map
         on this page. Replace it with your own styles as described in the
         documentation:
         https://developers.google.com/maps/documentation/javascript/tutorial -->
    <link rel="stylesheet" href="/maps/documentation/javascript/demos/demos.css">
  </head>
  <body>
    <div id="map"></div>
    <script>
      function initMap() {
        // Create a map object and specify the DOM element for display.
        var map = new google.maps.Map(document.getElementById('map'), {
          center: {lat: -34.397, lng: 150.644},
          zoom: 8
        });
      }

    </script>
    <script
src="https://maps.googleapis.com/maps/api/js?key=YOUR_API_KEY&callback=initMap"
  async defer></script>
  </body>
</html>
```

```

<!DOCTYPE html>
<html>
<head>
  <!-- This stylesheet contains specific styles for displaying the map
       on this page. Replace it with your own styles as described in the
       documentation:
       https://developers.google.com/maps/documentation/javascript/tutorial -->
  <link rel="stylesheet" href="/maps/documentation/javascript/demos/demos.css">
</head>
<body>
  <div id="map"></div>
  <script>
    function initMap() {
      var chicago = {lat: 41.85, lng: -87.65};
      var indianapolis = {lat: 39.79, lng: -86.14};

      var map = new google.maps.Map(document.getElementById('map'), {
        center: chicago,
        zoom: 7
      });

      var directionsDisplay = new google.maps.DirectionsRenderer({
        map: map
      });

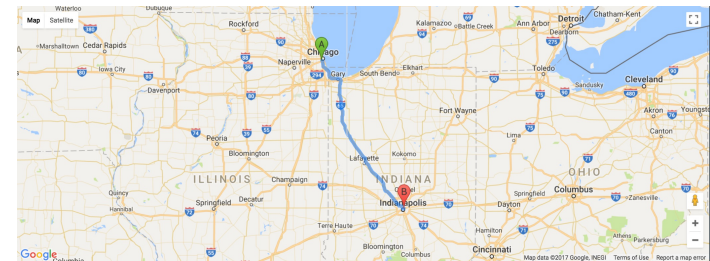
      // Set destination, origin and travel mode.
      var request = {
        destination: indianapolis,
        origin: chicago,
        travelMode: 'DRIVING'
      };

      // Pass the directions request to the directions service.
      var directionsService = new google.maps.DirectionsService();
      directionsService.route(request, function(response, status) {
        if (status == 'OK') {
          // Display the route on the map.
          directionsDisplay.setDirections(response);
        }
      });
    }

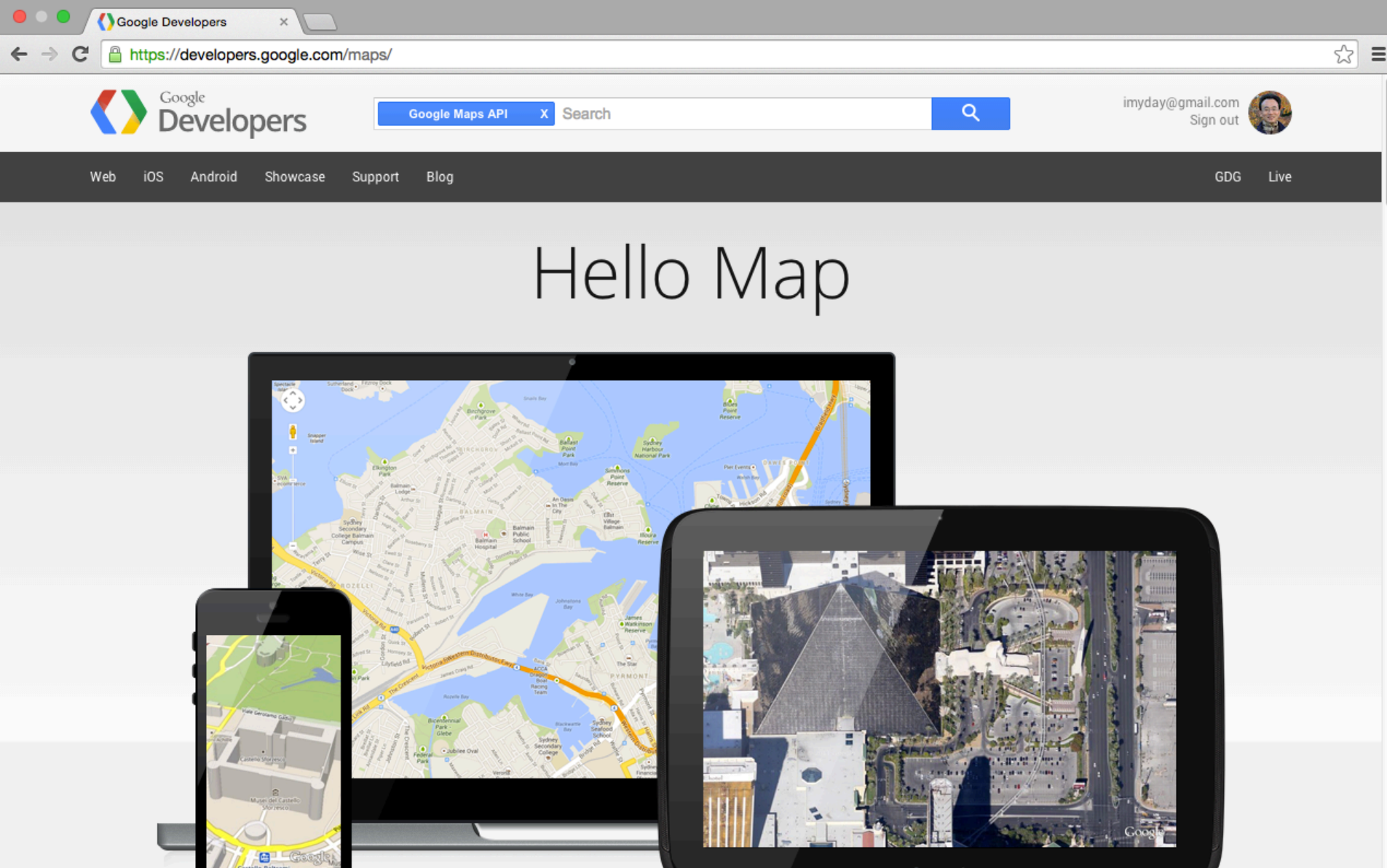
  </script>
  <script src="https://maps.googleapis.com/maps/api/js?key=YOUR_API_KEY&callback=initMap"
    async defer></script>
</body>
</html>

```

Google Maps JavaScript API Directions



Google Maps API



<https://developers.google.com/maps/>

Google Maps API

Google Developers

<https://developers.google.com/maps/>

Google Maps, available on every screen

55 million downloads can't be wrong. Bring the popularity of Google Maps to your app with the [Google Maps SDK for iOS](#).

Connaught Rd C

Wing On House
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Man Yee Ln

iOS Android Web Everywhere

Shing Sai Rd

新海旁街

堅尼地城消防局
Kennedy Town Fire Station

上海商業銀行
西環分行
Shanghai Commercial Bank
Point Branch

上海商業銀行大廈
Shanghai Commercial Bank Bldg

吉席街

順興大廈
Shun Hing Bldg

Map data ©2013 AutoNa

<https://developers.google.com/maps/>

Google Maps API Demos

Google Maps API

HOME DEMOS DEVELOPER STORIES LEARN MORE

More than a Map

The Google Maps API is more than a map for your apps. Explore demos of unique features that you can use in your apps today!

[Go to the demos](#)

[Learn More](#)

Build your own apps with the Google Maps API

[Read more](#)

[Developer Stories](#)

Visit Google Maps developers from around the world

[Read more](#)

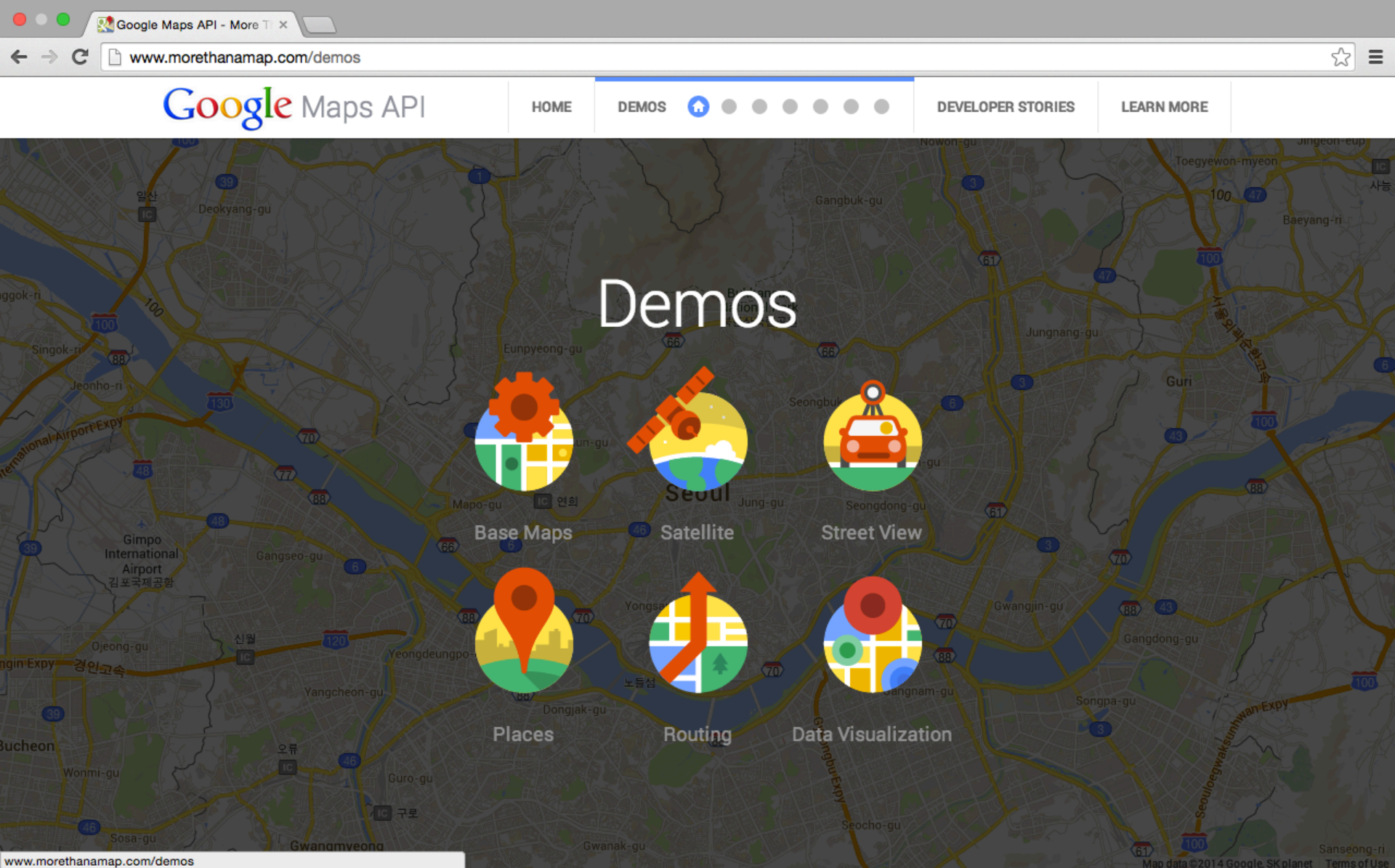
[#morethanamap on Google+](#)

[Map of the Week blog](#)

www.morethanamap.com/#

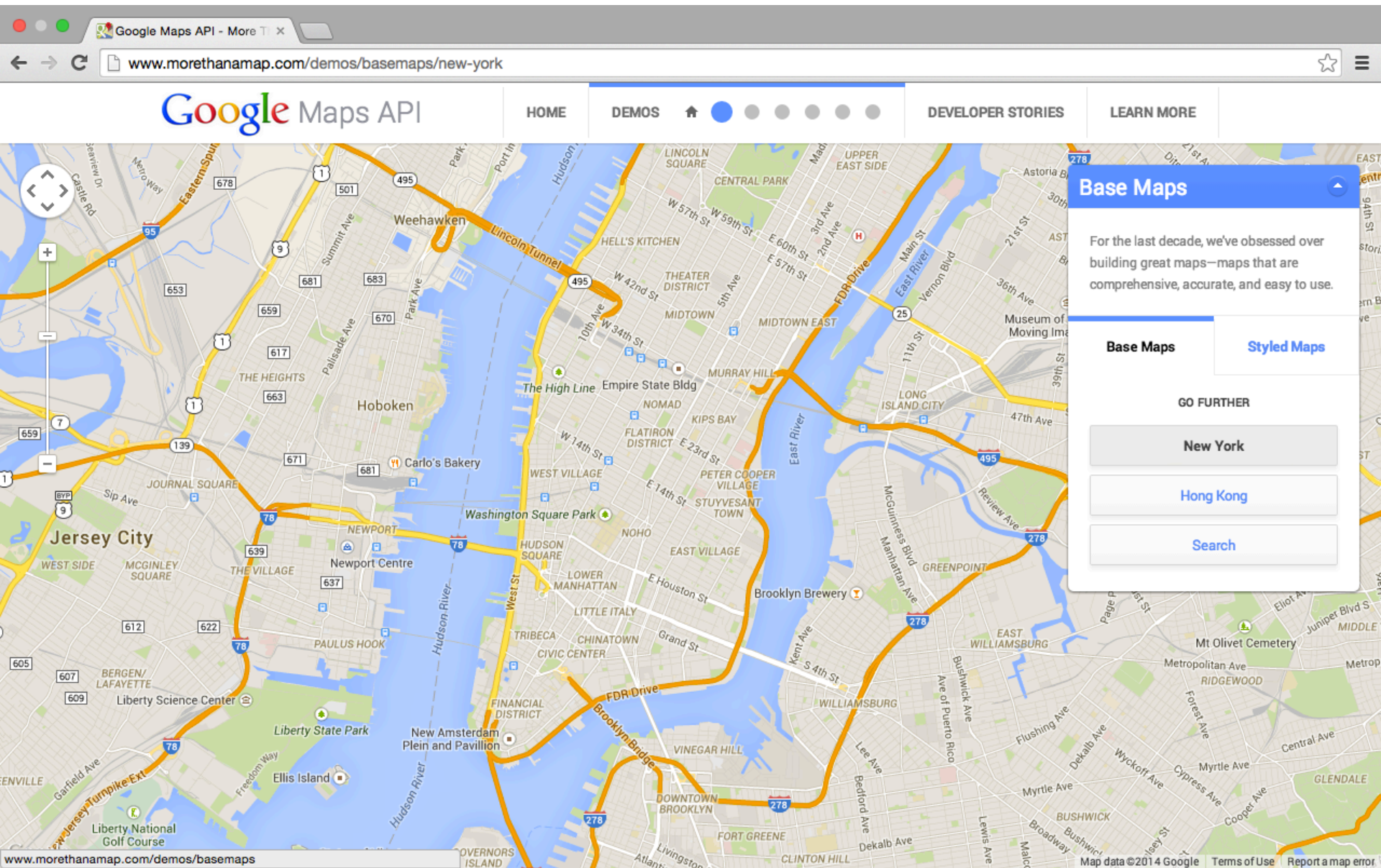
<http://www.morethanamap.com/>

Google Maps API Demos



<http://www.morethanamap.com/demos>

Google Maps API Demos



The screenshot displays the Google Maps API Demos page for New York City. The browser's address bar shows the URL www.morethanamap.com/demos/basemaps/new-york. The page features a navigation bar with links to HOME, DEMOS (which is active), DEVELOPER STORIES, and LEARN MORE. The main content area shows a map of New York City with various landmarks and streets labeled. A sidebar on the right contains a 'Base Maps' section with a description: 'For the last decade, we've obsessed over building great maps—maps that are comprehensive, accurate, and easy to use.' Below this, there are tabs for 'Base Maps' and 'Styled Maps'. Further down, there are buttons for 'GO FURTHER' with options for 'New York', 'Hong Kong', and a 'Search' button. The bottom of the page includes a footer with the URL www.morethanamap.com/demos/basemaps and copyright information: 'Map data ©2014 Google Terms of Use Report a map error'.

Google Maps API

HOME DEMOS DEVELOPER STORIES LEARN MORE

Base Maps

For the last decade, we've obsessed over building great maps—maps that are comprehensive, accurate, and easy to use.

Base Maps Styled Maps

GO FURTHER

New York

Hong Kong

Search

www.morethanamap.com/demos/basemaps

Map data ©2014 Google Terms of Use Report a map error

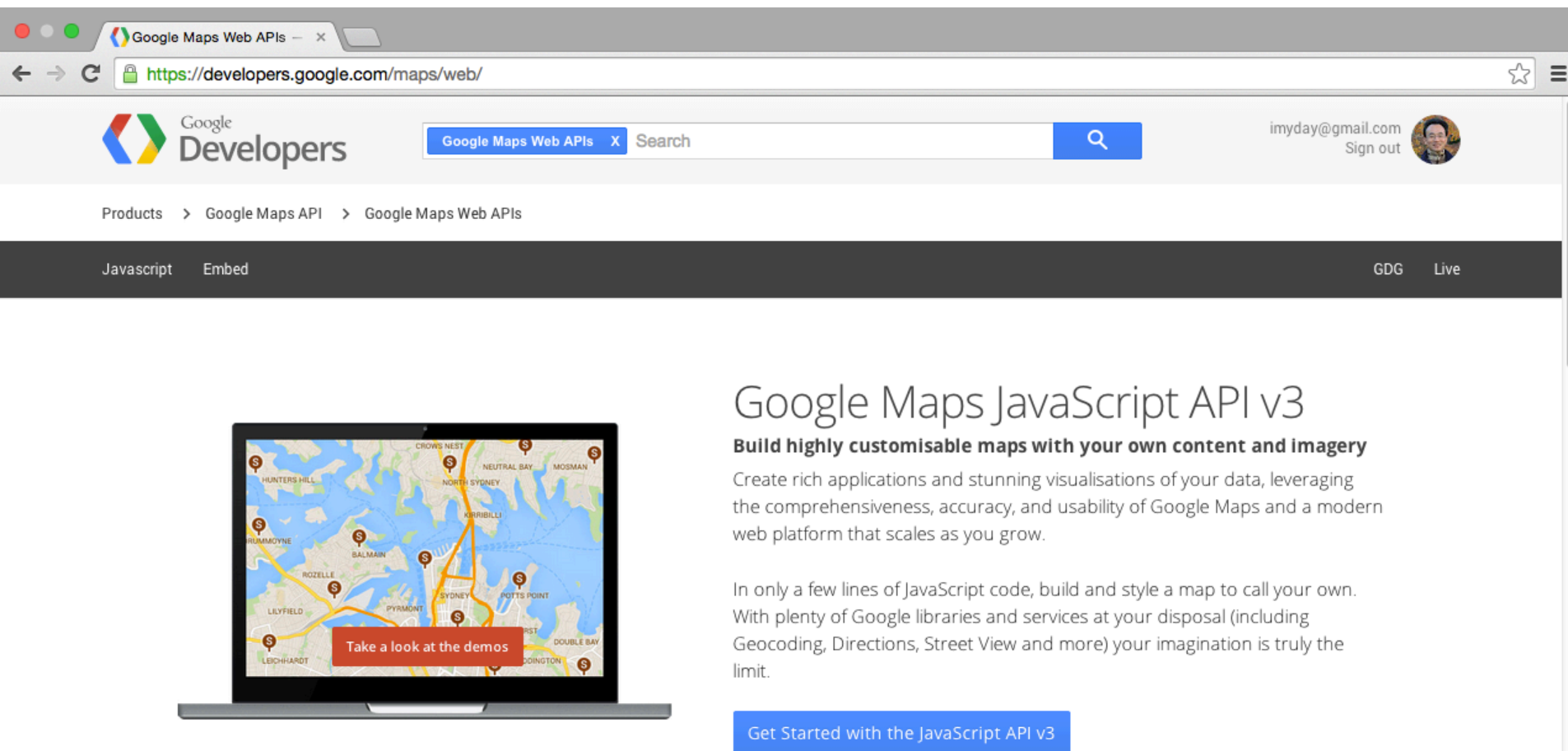
<http://www.morethanamap.com/demos/basemaps/new-york>

Google Maps API Demos

The screenshot displays a web browser window with the address www.morethanamap.com/demos/routing/cycling. The page features a navigation bar with links to HOME, DEMOS (which is active), DEVELOPER STORIES, and LEARN MORE. The main content area shows a map of Stockholm, Sweden, with a blue line indicating a cycling route. Two red diamond markers are placed on the route. A 'Routing' panel on the right side of the map provides instructions: 'In a car, on a bike, on foot, or riding a subway, help users find the best route. Use elevation profiles and live traffic to guide the way.' Below this, it says 'SHOW ME:' followed by three buttons: 'Cycling through Stockholm' (highlighted), 'Public Transit in Sydney', and 'Elevation in San Francisco'. The map data is attributed to ©2014 Google.

<http://www.morethanamap.com/demos/routing/cycling>

Google Maps JavaScript API v3



Google Maps Web APIs — x

← → ↻ <https://developers.google.com/maps/web/> ☆ ☰

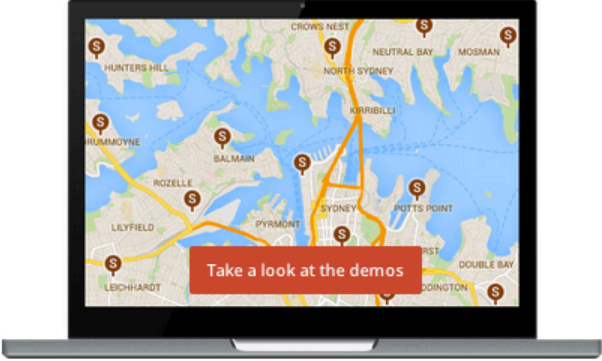
 Google Developers

Google Maps Web APIs X Search

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Products > Google Maps API > Google Maps Web APIs

Javascript Embed GDG Live



Google Maps JavaScript API v3

Build highly customisable maps with your own content and imagery

Create rich applications and stunning visualisations of your data, leveraging the comprehensiveness, accuracy, and usability of Google Maps and a modern web platform that scales as you grow.

In only a few lines of JavaScript code, build and style a map to call your own. With plenty of Google libraries and services at your disposal (including Geocoding, Directions, Street View and more) your imagination is truly the limit.

Get Started with the JavaScript API v3

Google Maps Embed API

Make places easily discoverable with interactive maps built for your users

<https://developers.google.com/maps/web/>

Google Maps JavaScript API

The screenshot shows a web browser window with the URL <https://developers.google.com/maps/documentation/javascript/tutorial>. The page is the "Getting Started" guide for the Google Maps JavaScript API v3. The header includes the Google Developers logo, a search bar, and a user profile for "imyday@gmail.com". The breadcrumb trail is "Products > Google Maps API > Google Maps JavaScript API v3". The main navigation bar contains links for "Get Started", "Documentation", "Reference", "Showcase", "Support", and "Blog". The page title is "Google Maps JavaScript API v3" with a Google+ badge showing 507 likes. A link to "Report documentation issue" is in the top right. The left sidebar lists the "Developer's Guide" sections: "Getting Started" (highlighted), "Usage Limits and Billing", "Concepts", "Signed-in Maps", "Map Types", "Styles", "Controls", "Drawing on the Map", "Layers", "Events", "Services", "Libraries", and "API Reference". The main content area has the heading "Getting Started" and a list of links: "Audience", "Obtaining an API Key", "Hello, World", "Declaring Your Application as HTML5", "Loading the Google Maps API", "Map DOM Elements", "Map Options", "The Map Object", "Loading the Map", and "Troubleshooting". Below this is the "Audience" section, which explains that the documentation is for those familiar with JavaScript and object-oriented programming, and mentions the availability of JavaScript tutorials. It also states that the conceptual documentation is designed to help users quickly start exploring and developing applications with the Google Maps API.

Getting Started - Google Maps API v3

Google Developers

Google Maps JavaScript API v3

Get Started Documentation Reference Showcase Support Blog

GDG Live

Google Maps JavaScript API v3 g+ 507 [Report documentation issue](#)

Developer's Guide

- Getting Started
- Usage Limits and Billing
- Concepts
- Signed-in Maps
- Map Types
- Styles
- Controls
- Drawing on the Map
- Layers
- Events
- Services
- Libraries
- API Reference

Getting Started

- [Audience](#)
- [Obtaining an API Key](#)
- [Hello, World](#)
- [Declaring Your Application as HTML5](#)
- [Loading the Google Maps API](#)
- [Map DOM Elements](#)
- [Map Options](#)
- [The Map Object](#)
- [Loading the Map](#)
- [Troubleshooting](#)

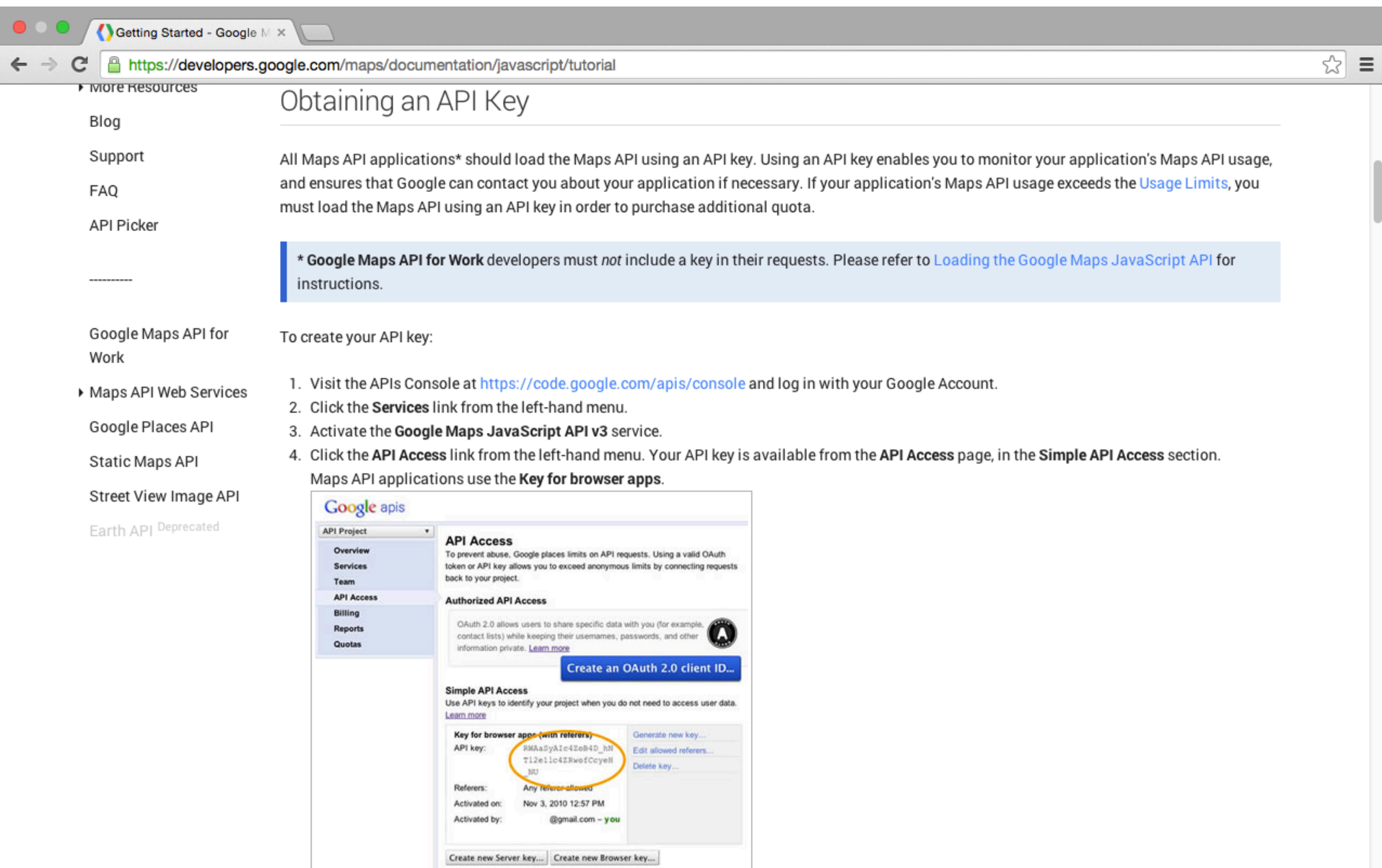
Audience

This documentation is designed for people familiar with [JavaScript](#) programming and object-oriented programming concepts. You should also be familiar with [Google Maps](#) from a user's point of view. There are many [JavaScript tutorials](#) available on the Web.

This conceptual documentation is designed to let you quickly start exploring and developing applications with the Google Maps API. We also

<https://developers.google.com/maps/documentation/javascript/tutorial>

Obtaining an Google Maps API Key



The screenshot shows a web browser window with the URL <https://developers.google.com/maps/documentation/javascript/tutorial>. The page title is "Obtaining an API Key". The left sidebar contains a "More Resources" section with links to "Blog", "Support", "FAQ", and "API Picker". Below this is a "Google Maps API for Work" section and a "Maps API Web Services" section with links to "Google Places API", "Static Maps API", "Street View Image API", and "Earth API | Deprecated".

The main content area has the heading "Obtaining an API Key". Below it, a paragraph states: "All Maps API applications* should load the Maps API using an 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. If your application's Maps API usage exceeds the [Usage Limits](#), you must load the Maps API using an API key in order to purchase additional quota."

A blue box contains a note: "* Google Maps API for Work developers must *not* include a key in their requests. Please refer to [Loading the Google Maps JavaScript API](#) for instructions."

Below the note, the text "To create your API key:" is followed by a numbered list of four steps:

1. Visit the APIs Console at <https://code.google.com/apis/console> and log in with your Google Account.
2. Click the **Services** link from the left-hand menu.
3. Activate the **Google Maps JavaScript API v3** service.
4. Click the **API Access** link from the left-hand menu. Your API key is available from the **API Access** page, in the **Simple API Access** section.

Below the list, the text "Maps API applications use the **Key for browser apps**." is shown.

The screenshot also includes a preview of the Google APIs console interface. The left sidebar shows a menu with "API Project", "Overview", "Services", "Team", "API Access", "Billing", "Reports", and "Quotas". The main content area shows the "API Access" section. Under "Authorized API Access", there is a "Create an OAuth 2.0 client ID..." button. Under "Simple API Access", there is a "Key for browser apps (with referers)" section. The "API key:" field contains the value "AKIAASyA1c42e84D_hhT12e1lc42RwofCeyellSU", which is circled in orange. The "Referers:" field contains the value "Any Referer allowed". The "Activated on:" field contains the value "Nov 3, 2010 12:57 PM". The "Activated by:" field contains the value "@gmail.com - you".

<https://developers.google.com/maps/documentation/javascript/tutorial>

Demo:
Integrate
Google Maps JavaScript API
with
jQuery Mobile

Start using the Google APIs console

Google APIs Console

https://code.google.com/apis/console/?noredirect&pli=1

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Google apis

Start using the Google APIs console
to manage your API usage



Creating an **APIs project** will let you:

- Use Google APIs **beyond anonymous limits**.
- **Monitor** API usage and **control** API access.
- **Share** API management with a team.

Create project...

[Code Home](#) - [Privacy Policy](#)

<https://code.google.com/apis/console>

<https://code.google.com/apis/console/?noredirect&pli=1>

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Google APIs Console

Google APIs Console

← → ↻ <https://code.google.com/apis/console/?noredirect&pli=1#project:841318404499:services> ☆ ☰

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Google apis

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API Project ▾

Overview
Services
Team
API Access

All (71) Active (0) Inactive (71) Google Cloud Platform

All services

Select services for the project.

Service	Status	Notes
Ad Exchange Buyer API	? ☐ OFF	Courtesy limit: 1,000 requests/day
Ad Exchange Seller API	? ☐ OFF	Courtesy limit: 10,000 requests/day
Admin SDK	? ☐ OFF	
AdSense Host API	? Request access...	Courtesy limit: 100,000 requests/day
AdSense Management API	? ☐ OFF	Courtesy limit: 10,000 requests/day
Analytics API	? ☐ OFF	Courtesy limit: 50,000 requests/day
Audit API	? ☐ OFF	Courtesy limit: 10,000 requests/day
BigQuery API	? ☐ OFF	Courtesy limit: 10,000 requests/day • Pricing
Blogger API v3	? Request access...	Courtesy limit: 10,000 requests/day
Books API	? ☐ OFF	Courtesy limit: 1,000 requests/day
CalDAV API	? ☐ OFF	Courtesy limit: 1,000,000 requests/day
Calendar API	? ☐ OFF	Courtesy limit: 100,000 requests/day
Chrome Web Store API	? ☐ OFF	

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Google APIs Console

Google APIs Console			
https://code.google.com/apis/console/?noredirect&pli=1#project:841318404499:services			
	Google Apps Reseller API	 ☐ OFF	Courtesy limit: 10,000 requests/day
	Google Civic Information API	 ☐ OFF	Courtesy limit: 25,000 requests/day
	Google Cloud Datastore API	 ☐ OFF	Courtesy limit: 10,000,000 requests/day
	Google Cloud Messaging for Android	 ☐ OFF	
	Google Cloud Messaging for Chrome	 ☐ OFF	Courtesy limit: 10,000 requests/day
	Google Cloud SQL	 ☐ OFF	Pricing
	Google Cloud SQL API	 ☐ OFF	
	Google Cloud Storage	 ☐ OFF	Pricing
	Google Cloud Storage JSON API	 ☐ OFF	
	Google Compute Engine	 ☐ OFF	Pricing
	Google Contacts CardDAV API	 ☐ OFF	Courtesy limit: 10,000 requests/day
	Google Maps Android API v2	 ☐ OFF	
	Google Maps API v3	 ☐ OFF	Courtesy limit: 25,000 requests/day • Pricing
	Google Maps Coordinate API	 ☐ OFF	Courtesy limit: 1,000 requests/day
	Google Maps Engine API	 ☐ OFF	Courtesy limit: 10,000 requests/day
	Google Maps Geolocation API	 ☐ OFF	Courtesy limit: 0 requests/day • Pricing
	Google Maps SDK for iOS	 ☐ OFF	
	Google Maps Tracks API	 ☐ OFF	

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Google APIs Console

Google APIs Console

← → ↺ <https://code.google.com/apis/console/?noredirect&pli=1#project:841318404499:services> ☆ ☰

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 [apis](#)

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Review terms of service

Print

0 of 1 terms of service accepted.
Google Maps/Earth APIs

Google Maps/Google Earth APIs Terms of Service

Last Updated: May 10, 2013

1. Your relationship with Google.

1.1 Use of the Service is Subject to these Terms. Your use of any of the Google Maps/Google Earth APIs (referred to in this document as the **"Maps API(s)"** or the **"Service"**) is subject to the terms of a legal agreement between you and Google (the **"Terms"**). "Google" means either (a) Google Ireland Limited, with offices at Gordon House, Barrow Street, Dublin 4, Ireland, if Customer's billing address is in any country within Europe, the Middle East, or Africa (**"EMEA"**); (b) Google Asia Pacific Pte. Ltd., with offices at 8 Marina View Asia Square 1 #30-01 Singapore 018960, if Customer's billing address is in any country within the Asia Pacific region (**"APAC"**); or (c) Google Inc., with offices at 1600 Amphitheatre Parkway, Mountain View, California 94043, USA, if Customer's billing address is in any country in the world other than those in EMEA and APAC.

1.2 The Terms include Google's Legal Notices and Privacy Policy.

(a) Unless otherwise agreed in writing with Google, the Terms will include the following:

- (i) the terms and conditions set forth in this document (the **"Maps APIs Terms"**);
- (ii) the [Legal Notices](#); and
- (iii) the [Privacy Policy](#).

☒ I agree to these terms.

Accept

Decline

[Code Home](#) - [Privacy Policy](#)

Send Feedback

Google APIs Console

The screenshot shows the Google APIs Console interface. The browser address bar displays the URL: <https://code.google.com/apis/console/?noredirect&pli=1#project:841318404499:services>. The page header includes the Google APIs logo and a notification: "We are improving the experience. Try the new [Cloud Console](#)." The left sidebar contains navigation links: Overview, Services, Team, API Access, Billing, Reports, and Quotas. The main content area shows the "Active services" section, which is highlighted with a red box. Below the "Active services" header, there is a table with the following data:

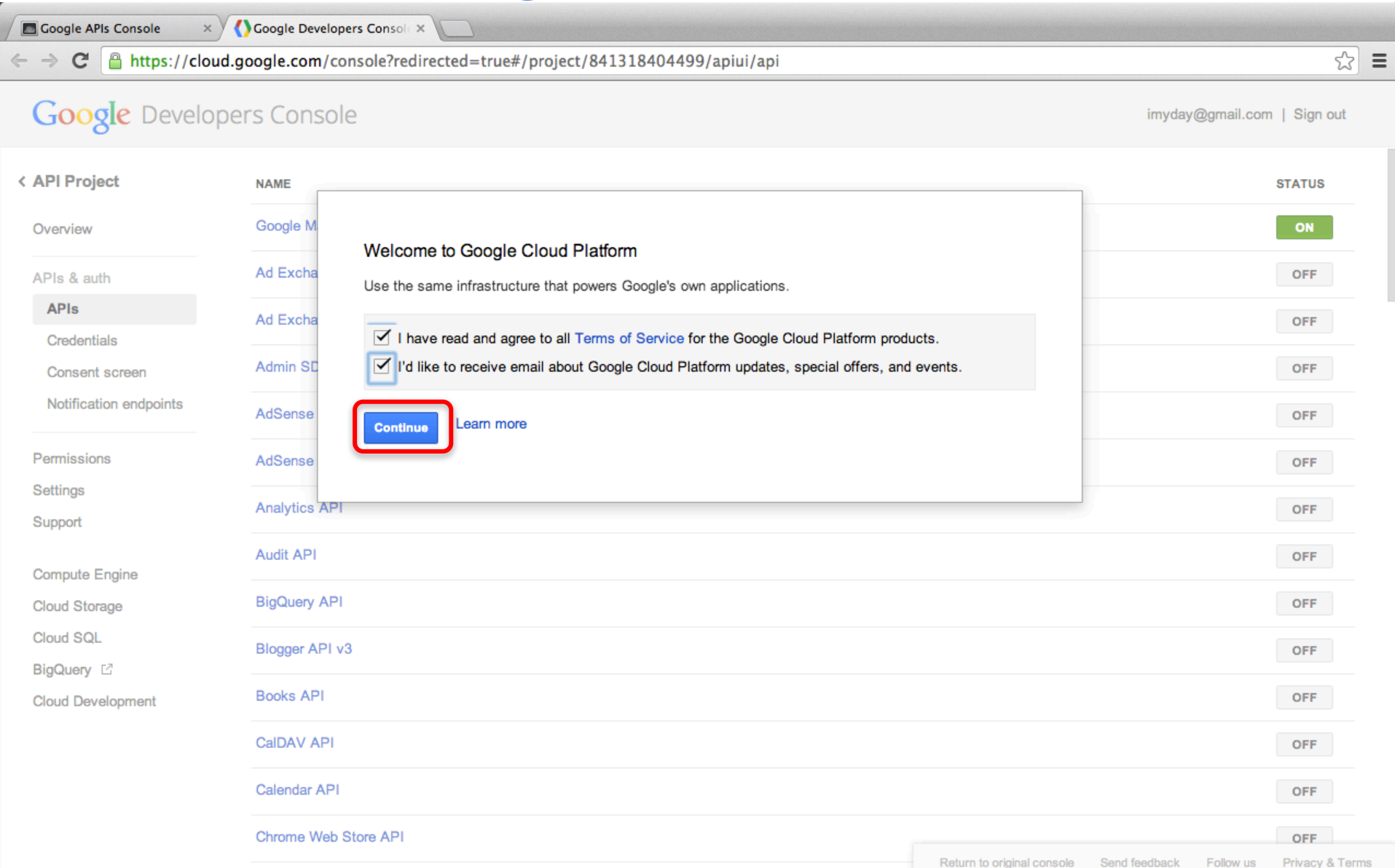
Service	Status	Notes
Google Maps API v3	☒ ON	Courtesy limit: 25,000 requests/day • Pricing

[Code Home](#) - [Privacy Policy](#)

Send Feedback

Google Developers Console

Google Cloud Platform



Google Maps API v3

The screenshot shows the Google Developers Console interface. The browser's address bar displays the URL: https://cloud.google.com/console?redirected=true#/project/841318404499/apiui/api/maps_backend. The page header includes the Google Developers Console logo and the user's email address, imyday@gmail.com, with a 'Sign out' link. On the left sidebar, the 'API Project' section is expanded, showing a list of services including Overview, APIs & auth, Permissions, Settings, Support, Compute Engine, Cloud Storage, Cloud SQL, BigQuery, and Cloud Development. The 'APIs & auth' section is further expanded, highlighting 'APIs'. In the main content area, the 'Google Maps API v3' is listed with a green 'ON' button, indicating it is enabled. Links for 'Quota' and 'Reports' are also visible. A red rectangle highlights the 'Google Maps API v3' entry and the descriptive text below it: 'The Google Maps API lets you embed Google Maps in your own web pages with Javascript. [Learn more](#)'. The footer contains links for 'Return to original console', 'Send feedback', 'Follow us', and 'Privacy & Terms'.

Google APIs Console x Google Developers Console x

← → ↻ https://cloud.google.com/console?redirected=true#/project/841318404499/apiui/api/maps_backend ☆ ☰

Google Developers Console imyday@gmail.com | Sign out

< API Project

Overview

APIs & auth

APIs

Credentials

Consent screen

Notification endpoints

Permissions

Settings

Support

Compute Engine

Cloud Storage

Cloud SQL

BigQuery ↗

Cloud Development

Google Maps API v3 **ON** [Quota](#) [Reports](#)

The Google Maps API lets you embed Google Maps in your own web pages with Javascript. [Learn more](#)

Return to original console Send feedback Follow us Privacy & Terms

Credentials: Public API access

Get Google Maps API Key

The screenshot shows the Google Developers Console interface. The browser address bar displays the URL: `https://cloud.google.com/console?redirected=true#/project/[redacted]/apiui/credential`. The page header includes the Google Developers Console logo and a user profile with an email address ending in `@gmail.com` and a 'Sign out' link.

On the left sidebar, the 'API Project' section is expanded, and the 'Credentials' tab is selected and highlighted with a red box. Other tabs in the sidebar include Overview, APIs & auth, APIs, Consent screen, Notification endpoints, Permissions, Settings, Support, Compute Engine, Cloud Storage, Cloud SQL, BigQuery, and Cloud Development.

The main content area is divided into two columns. The left column contains information about OAuth 2.0, stating it allows users to share specific data while keeping their usernames, passwords, and other information private. It includes a 'Learn more' link and a red 'CREATE NEW CLIENT ID' button.

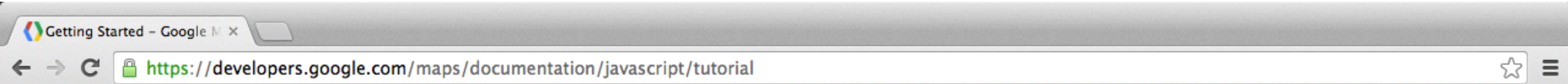
The right column is titled 'Public API access' and explains that using this key does not require any user action or consent. It also includes a 'Learn more' link and a red 'CREATE NEW KEY' button.

Below the 'Public API access' section, there is a table titled 'Key for browser applications'. The table has four rows: 'API key', 'Referers', 'Activation date', and 'Activated by'. The 'API key' row shows the key `AIzaSyBk9zQmepC[redacted]`, which is highlighted with a red box. The 'Referers' row shows 'Any referer allowed'. The 'Activation date' row shows a date. The 'Activated by' row shows the user's email address and '(you)'. Below the table are three buttons: 'Edit allowed referers', 'Regenerate key', and 'Delete'.

Large red text 'API key' is overlaid on the right side of the page.

Google Map JavaScript API

Hello, World



Hello, World

The easiest way to start learning about the Google Maps API is to see a simple example. The following web page displays a map centered on Sydney, New South Wales, Australia:

```
<!DOCTYPE html>
<html>
  <head>
    <meta name="viewport" content="initial-scale=1.0, user-scalable=no" />
    <style type="text/css">
      html { height: 100% }
      body { height: 100%; margin: 0; padding: 0 }
      #map-canvas { height: 100% }
    </style>
    <script type="text/javascript"
      src="https://maps.googleapis.com/maps/api/js?key={API_KEY}&sensor=SET_TO_TRUE_OR_FALSE">
    </script>
    <script type="text/javascript">
      function initialize() {
        var mapOptions = {
          center: new google.maps.LatLng(-34.397, 150.644),
          zoom: 8
        };
        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"/>
  </body>
</html>
```

[View example \(map-simple.html\)](#)

Even in this simple example, there are a few things to note:
<https://developers.google.com/maps/documentation/javascript/tutorial>

Google Map JavaScript API

Hello, World

API key

```
<!DOCTYPE html>
<html>
<head>
  <meta name="viewport" content="initial-scale=1.0, user-scalable=no" />
  <style type="text/css">
    html { height: 100% }
    body { height: 100%; margin: 0; padding: 0 }
    #map-canvas { height: 100% }
  </style>
  <script type="text/javascript"
    src="https://maps.googleapis.com/maps/api/js?key=API_KEY&sensor=SET_TO_TRUE_OR_FALSE">
  </script>
  <script type="text/javascript">
    function initialize() {
      var mapOptions = {
        center: new google.maps.LatLng(-34.397, 150.644),
        zoom: 8
      };
      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"/>
</body>
</html>
```

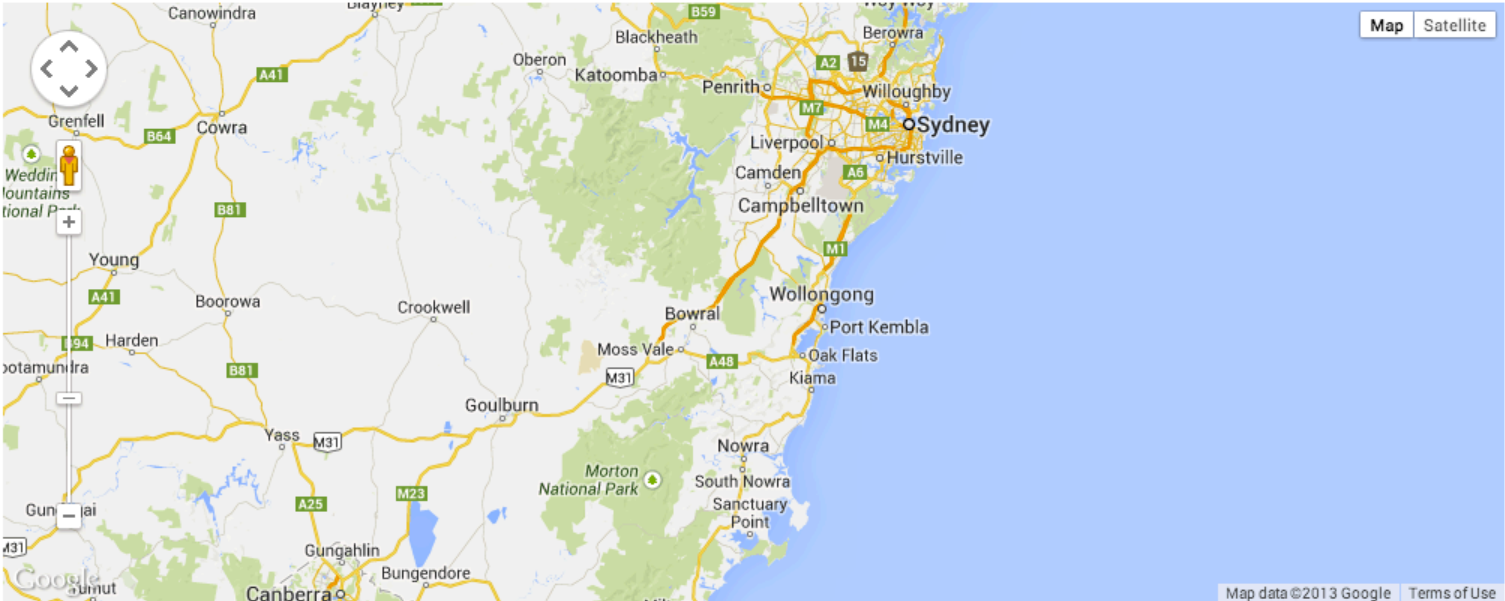
Google Maps JavaScript API: Simple Map

Simple Map – Google Maps

← → ↺ <https://developers.google.com/maps/documentation/javascript/examples/map-simple> ☆ ☰

- Developer's Guide
- API Reference
- Code Samples
 - Basics
 - Simple map**
 - Visual Refresh
 - Showing pixel and tile coordinates
 - Geolocation
 - Localizing the map
 - Right-to-left languages
 - Asynchronous loading
 - Custom map projections
 - Events
 - Controls
 - Styles
 - Drawing on the Map
 - Layers
 - MapTypes
 - Services
 - Libraries
 - Demo Gallery
 - More Resources

Simple Map



Map data ©2013 Google Terms of Use

View this example [full screen](#).

JavaScript JavaScript + HTML

```
<!DOCTYPE html>
<html>
  <head>
    <title>Simple Map</title>
    <meta name="viewport" content="initial-scale=1.0, user-scalable=no">
    <meta charset="utf-8">
    <style>
      html, body, #map-canvas {
        height: 100%;
```

Google Maps JavaScript API Example JavaScript + HTML

```
<!DOCTYPE html>
<html>
  <head>
    <title>Simple Map</title>
    <meta name="viewport" content="initial-scale=1.0, user-scalable=no">
    <meta charset="utf-8">
    <style>
      html, body, #map-canvas {
        height: 100%;
        margin: 0px;
        padding: 0px
      }
    </style>
    <script src="https://maps.googleapis.com/maps/api/js?v=3.exp&sensor=false"></script>
    <script>
      var map;
      function initialize() {
        var mapOptions = {
          zoom: 8,
          center: new google.maps.LatLng(-34.397, 150.644)
        };
        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>
```

```
<div style="position:absolute; height:100%; width:100%;">  
  <div id="map-canvas"></div>  
</div>
```



Google Maps JavaScript API

```
<style>
```

```
  #map-canvas {  
    height: 100%;  
    margin: 0px;  
    padding: 0px  
  }
```

```
</style>
```

```
<script>
```

```
  function initialize() {  
    var mapOptions = {  
      zoom: 15,  
      center: new google.maps.LatLng(25.174738, 121.450381)  
    };  
  };
```

```
  var map = new google.maps.Map(document.getElementById('map-canvas'),  
    mapOptions);  
}
```

```
function loadScript() {  
  var script = document.createElement('script');  
  script.type = 'text/javascript';  
  script.src = 'https://maps.googleapis.com/maps/api/js?v=3.exp&sensor=true&callback=initialize';  
  document.body.appendChild(script);  
}
```

```
  window.onload = loadScript;
```

```
</script>
```

```

<!DOCTYPE html>
<html>
<head>
  <title>Google Maps</title>
  <meta charset=utf-8 />
  <meta name="viewport" content="width=device-width, initial-scale=1" />

  <script src="js/jquery.js"></script>
  <link type="text/css" href="css/jquery.mobile-1.3.2.min.css" rel="stylesheet" />
  <script type="text/javascript" src="js/jquery.mobile-1.3.2.min.js"></script>

  <!--PhoneGap-->
  <link rel="stylesheet" type="text/css" href="css/index.css" />
  <!--
  <script type="text/javascript" src="phonegap.js"></script>
  -->
  <script type="text/javascript" src="js/index.js"></script>
  <!--/PhoneGap-->
  <script type="text/javascript">
    app.initialize();
  </script>

  <style>
    #map-canvas {
      height: 100%;
      margin: 0px;
      padding: 0px;
    }
  </style>

  <script>
    function initialize() {
      var mapOptions = {
        zoom: 15,
        center: new google.maps.LatLng(25.174738, 121.450381)
      };

      var map = new google.maps.Map(document.getElementById('map-canvas'),
        mapOptions);
    }

    function loadScript() {
      var script = document.createElement('script');
      script.type = 'text/javascript';
      script.src = 'https://maps.googleapis.com/maps/api/js?v=3.exp&sensor=true&callback=initialize';
      document.body.appendChild(script);
    }

    window.onload = loadScript;
  </script>

</head>

```

```

<body>

  <div data-role="page" id="googlemaps" data-theme="b">
    <div data-role="header" data-position="inline" data-theme="b">
      <a data-icon="back" data-rel="back" back-btn="true">Back</a>
      <h1>Google Maps</h1>
      <a href="index.html#MyHome" rel="external" data-icon="home">Home</a>
    </div><!-- /header -->

    <div style="position:absolute; height:100%; width:100%;">
      <div id="map-canvas"></div>
    </div>

    <div data-role="footer" data-position="fixed" data-theme="b">
      <div data-role="navbar">
        <ul>
          <li><a href="index.html#MyHome" rel="external" class="ui-btn-active ui-state-persist"
            data-transition="fade" data-icon="home">Home</a></li>
          <li><a href="index.html#Research" rel="external" class="ui-btn-active ui-state-persist"
            data-transition="fade" data-icon="star">Research</a></li>
          <li><a href="index.html#Teaching" rel="external" class="ui-btn-active ui-state-persist"
            data-transition="fade" data-icon="check">Teaching</a></li>
          <li><a href="index.html#More" rel="external" class="ui-btn-active ui-state-persist"
            data-transition="fade" data-icon="bars">More</a></li>
          <li><a href="index.html#About" rel="external" class="ui-btn-active ui-state-persist"
            data-transition="fade" data-icon="grid">About</a></li>
        </ul>
      </div>
    </div><!-- /footer -->
  </div><!-- /page Google Map -->
</body>
</html>

```

map.html

Google Maps JavaScript API + jQuery Mobile



<http://mail.tku.edu.tw/myday/app/map.html>

References

- Google Maps API,
<https://developers.google.com/maps/>
- Google Maps JavaScript API,
<https://developers.google.com/maps/documentation/javascript/>
- Google Maps JavaScript API Tutorial,
<https://developers.google.com/maps/documentation/javascript/tutorial>
- Google Maps API Tutorial,
<http://www.w3schools.com/googleAPI/>