



Social Media Apps Programming

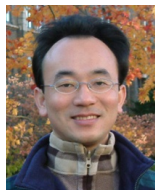
Google Map API

1071SMAP12

TLMXM1A (8550) (M2143) (Fall 2018)

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

Thu 8,9 (10:10-12:00) B206



Min-Yuh Day, Ph.D.

Assistant Professor

Department of Information Management

Tamkang University

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



Course Schedule (1/2)



Week	Date	Subject/Topics
1	2018/09/13	Course Orientation and Introduction to Social Media and Mobile Apps Programming
2	2018/09/20	Introduction to Android / iOS Apps Programming
3	2018/09/27	Developing Android Native Apps with Java (Android Studio)
4	2018/10/04	Developing iPhone / iPad Native Apps with Swift (XCode)
5	2018/10/11	Mobile Apps using HTML5/CSS3/JavaScript
6	2018/10/18	jQuery Mobile
7	2018/10/25	Create Hybrid Apps with Phonegap
8	2018/11/01	jQuery Mobile/Phonegap
9	2018/11/08	jQuery Mobile/Phonegap

Course Schedule (2/2)



Week	Date	Subject/Topics
10	2018/11/15	Midterm Exam Week / Project Presentation
11	2018/11/22	Case Study on Social Media Apps Programming and Marketing in Google Play and App Store
12	2018/11/29	Google Cloud Platform
13	2018/12/06	Google App Engine
14	2018/12/13	Google Map API
15	2018/12/20	Facebook API (Facebook JavaScript SDK) (Integrate Facebook with iOS/Android Apps)
16	2018/12/27	Twitter API
17	2019/01/03	Final Project Presentation
18	2019/01/10	Final Exam Week / Final Project Presentation

Google Maps API

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

Google Maps Platform

Geo-location APIs | Google M x +

← → ↻ <https://cloud.google.com/maps-platform/> ☆

Google Cloud Console

Google Maps Platform [Overview](#) [Products](#) [Pricing](#) [Docs](#) [Blog](#) [Contact sales](#) [Get started](#)

Welcome to Google Maps Platform

Explore where real-world insights and immersive location experiences can take your business

[GET STARTED](#)

99%
coverage of the world
Build with reliable, comprehensive data

25 million
updates daily
Count on accurate, real-time location

1 billion
monthly active users
Scale confidently, backed by our

<https://cloud.google.com/maps-platform/>

Google Maps API



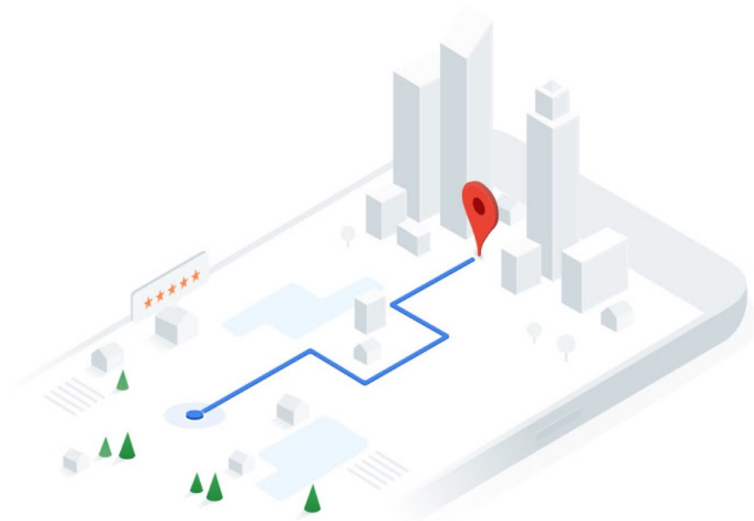
Build the next generation of location experiences

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

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



Google Maps APIs

Home

Documentation

Pricing and Plans



Search

ALL PRODUCTS



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

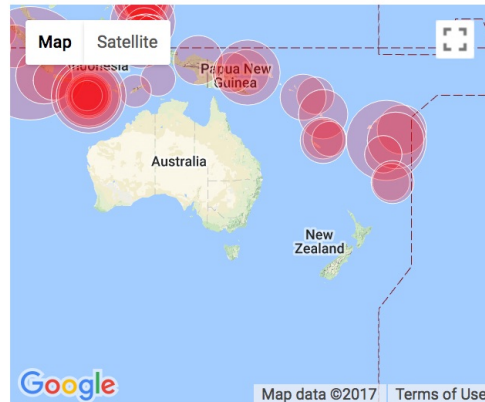
OVERVIEW GUIDES REFERENCE SAMPLES SUPPORT SEND FEEDBACK

Tutorials

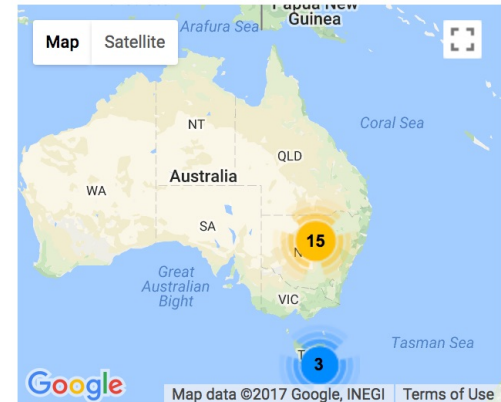
Choose one of these tutorials or [see them all](#).



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

Home

Documentation

Pricing and Plans



Search

ALL PRODUCTS



OVERVIEW

GUIDES

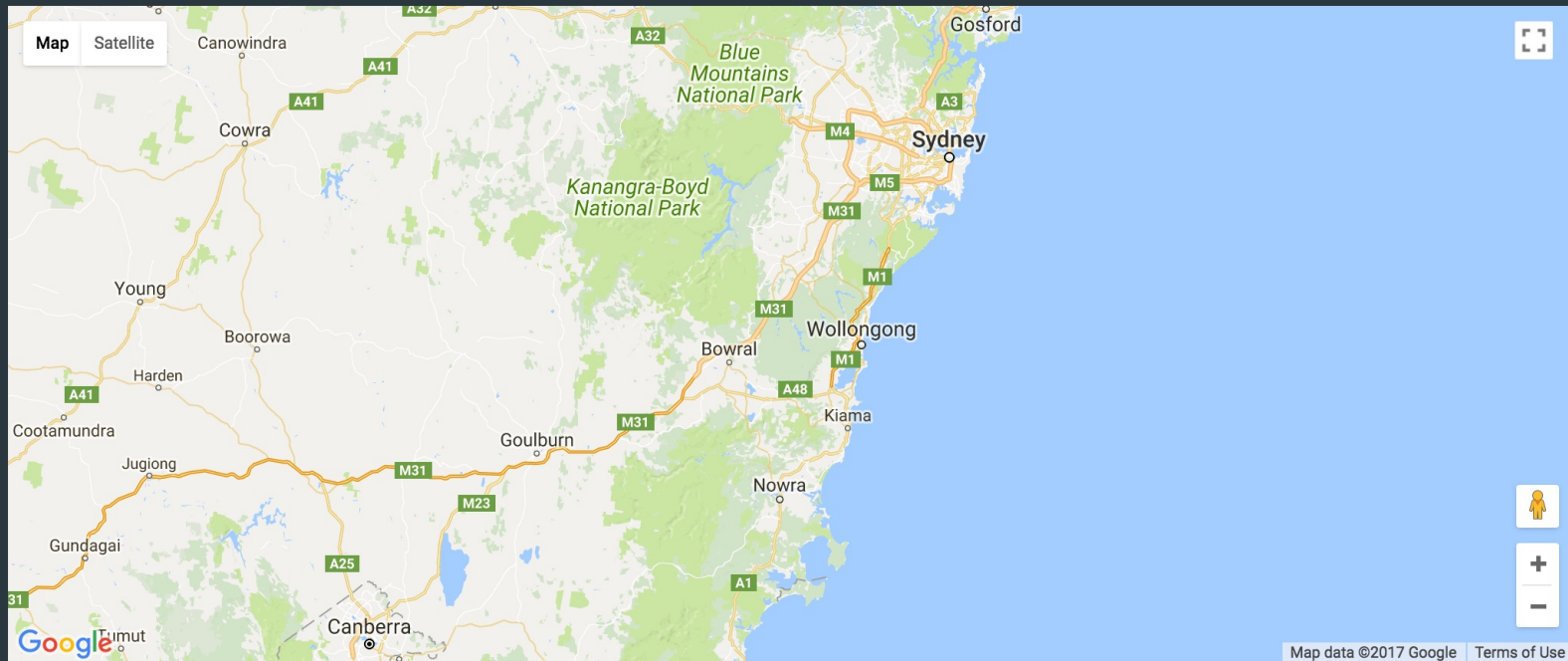
REFERENCE

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
      });

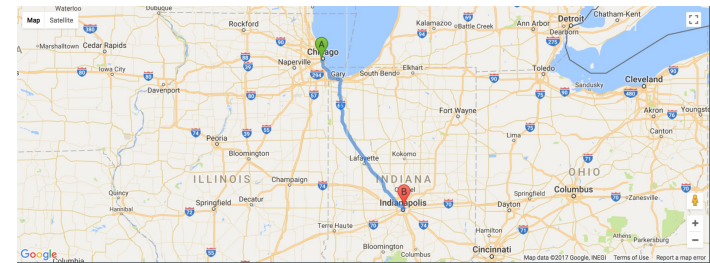
      var directionsDisplay = new google.maps.DirectionsRenderer({
        map: map
      });

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

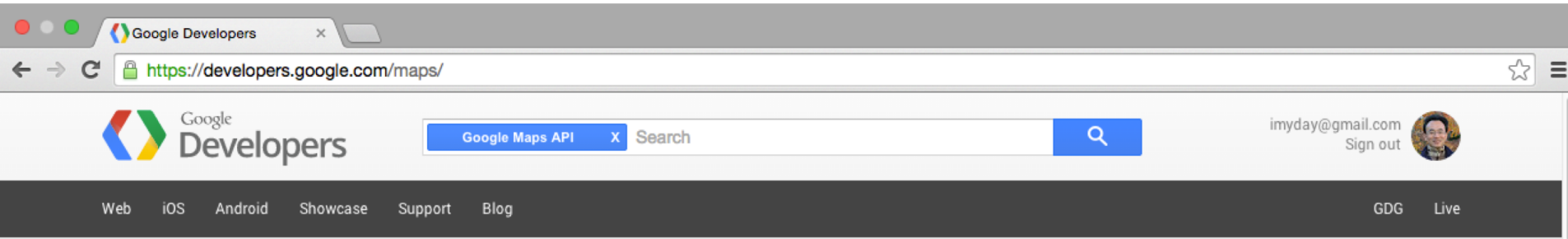
      // Pass the directions request to the directions service.
      var directionsService = new google.maps.DirectionsService();
      directionsService.route(request, function(response, status) {
        if (status == 'OK') {
          // Display the route on the map.
          directionsDisplay.setDirections(response);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



Hello Map



<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](#).

Wing On House
永安集團大廈

Connaught Rd C

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](#)

Google Maps API Demos

The image shows a browser window displaying the Google Maps API Demos page. The browser's address bar shows the URL www.morethanamap.com/demos. The page features a navigation menu with links for HOME, DEMOS (which is active), DEVELOPER STORIES, and LEARN MORE. The main content area is a dark-themed map of Seoul, Korea, with the word "Demos" centered in white. Six circular icons are arranged in a grid, each representing a different Google Maps API feature: Base Maps (gear icon), Satellite (satellite icon), Street View (car icon), Places (location pin icon), Routing (arrow icon), and Data Visualization (map with markers icon). The map background shows various districts and landmarks in Seoul, including the Han River and several highways.

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

Google Maps API Demos

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

Google Maps API

HOME DEMOS DEVELOPER STORIES LEARN MORE

Routing

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.

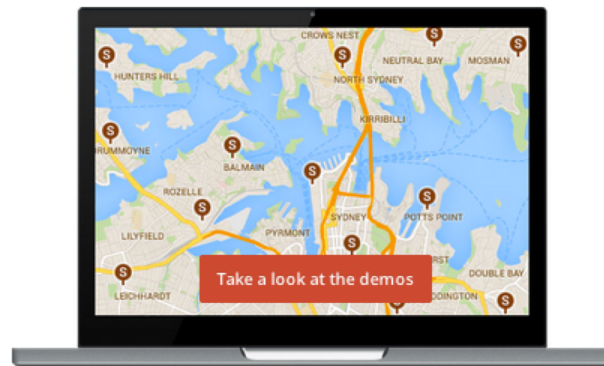
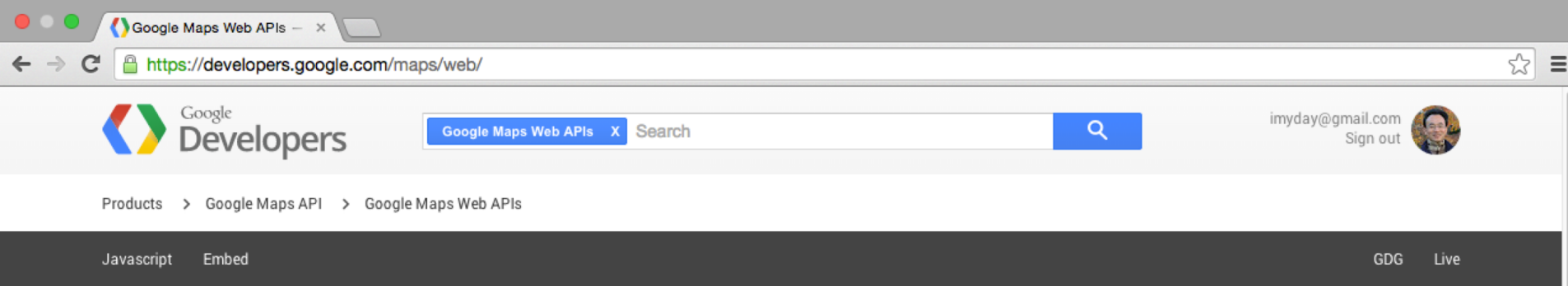
SHOW ME:

- Cycling through Stockholm
- Public Transit in Sydney
- Elevation in San Francisco

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

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

Google Maps JavaScript API v3



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 displaying the Google Developers page for the Google Maps JavaScript API v3. The browser's address bar shows the URL <https://developers.google.com/maps/documentation/javascript/tutorial>. The page header includes the Google Developers logo, a search bar with the text "Google Maps JavaScri...", and a user profile for "imyday@gmail.com" with a "Sign out" link. The breadcrumb navigation shows "Products > Google Maps API > Google Maps JavaScript API v3". The main navigation menu includes "Get Started", "Documentation", "Reference", "Showcase", "Support", and "Blog". The page title is "Google Maps JavaScript API v3" with a "G+1" button and a count of "507". A "Report documentation issue" link is located in the top right. The left sidebar contains a "Developer's Guide" section with a "Getting Started" link highlighted in red. Other links in the sidebar include "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 features a "Getting Started" section with 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 an "Audience" section with a horizontal line. The text in the "Audience" section states: "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." Below this is another paragraph: "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

Getting Started - Google M x

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

More Resources

- Blog
- Support
- FAQ
- API Picker

Google Maps API for Work

Maps API Web Services

- Google Places API
- Static Maps API
- Street View Image API
- Earth API Deprecated

Obtaining an API Key

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.

* **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](#).

To create your API key:

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.

Maps API applications use the **Key for browser apps**.

Google apis

API Project

- Overview
- Services
- Team
- API Access
- Billing
- Reports
- Quotas

API Access

To prevent abuse, Google places limits on API requests. Using a valid OAuth token or API key allows you to exceed anonymous limits by connecting requests back to your project.

Authorized API Access

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 an OAuth 2.0 client ID...](#)

Simple API Access

Use API keys to identify your project when you do not need to access user data. [Learn more](#)

Key for browser apps (with referers)

API key: **AKIAa3yA1c42oB4D_hhT12e1lc4Z3wofCcye8NU**

Referers: Any Referer allowed

Activated on: Nov 3, 2010 12:57 PM

Activated by: @gmail.com - you

[Generate new key...](#)
[Edit allowed referers...](#)
[Delete key...](#)

[Create new Server key...](#) [Create new Browser key...](#)

**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

Search Images Maps Play YouTube News Gmail Drive More ▼

imyday@gmail.com ▼ | Settings ▼ | Help | Sign out

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>

Send Feedback

Google APIs Console

Google APIs Console

https://code.google.com/apis/console/?noredirect&pli=1#project:841318404499:services

Search Images Maps Play YouTube News Gmail Drive More

imyday@gmail.com | Settings | Help | Sign out

Google apis

We are improving the experience. Try the new [Cloud Console](#).

API Project

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

All services
Select services for the project.





































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

Send Feedback

Google APIs Console

Google APIs Console

https://code.google.com/apis/console/?noredirect&pli=1#project:841318404499:services

 Google Apps Reseller API		<input type="checkbox"/> OFF	Courtesy limit: 10,000 requests/day
 Google Civic Information API		<input type="checkbox"/> OFF	Courtesy limit: 25,000 requests/day
 Google Cloud Datastore API		<input type="checkbox"/> OFF	Courtesy limit: 10,000,000 requests/day
 Google Cloud Messaging for Android		<input type="checkbox"/> OFF	
 Google Cloud Messaging for Chrome		<input type="checkbox"/> OFF	Courtesy limit: 10,000 requests/day
 Google Cloud SQL		<input type="checkbox"/> OFF	Pricing
 Google Cloud SQL API		<input type="checkbox"/> OFF	
 Google Cloud Storage		<input type="checkbox"/> OFF	Pricing
 Google Cloud Storage JSON API		<input type="checkbox"/> OFF	
 Google Compute Engine		<input type="checkbox"/> OFF	Pricing
 Google Contacts CardDAV API		<input type="checkbox"/> OFF	Courtesy limit: 10,000 requests/day
 Google Maps Android API v2		<input type="checkbox"/> OFF	
 Google Maps API v3		<input type="checkbox"/> OFF	Courtesy limit: 25,000 requests/day • Pricing
 Google Maps Coordinate API		<input type="checkbox"/> OFF	Courtesy limit: 1,000 requests/day
 Google Maps Engine API		<input type="checkbox"/> OFF	Courtesy limit: 10,000 requests/day
 Google Maps Geolocation API		<input type="checkbox"/> OFF	Courtesy limit: 0 requests/day • Pricing
 Google Maps SDK for iOS		<input type="checkbox"/> OFF	
 Google Maps Tracks API		<input type="checkbox"/> OFF	

Send Feedback

Google APIs Console

Google APIs Console

https://code.google.com/apis/console/?noredirect&pli=1#project:841318404499:services

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Google apis

We are improving the experience. Try the new [Cloud Console](#).

Review terms of service

Print

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

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

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

Send Feedback

Google APIs Console

The screenshot shows the Google APIs Console interface. At the top, there is a navigation bar with the Google logo and the text "Google apis". Below this, there is a yellow banner that reads "We are improving the experience. Try the new [Cloud Console](#)." with a close button. The main content area is divided into a left sidebar and a main panel. The sidebar contains a dropdown menu for "API Project" and a list of navigation items: "Overview", "Services", "Team", "API Access", "Billing", "Reports", and "Quotas". The main panel displays the "Active services" section, which is highlighted with a red rounded rectangle. This section includes a sub-header "Active services" and the instruction "Select services for the project." Below this is a table with three columns: "Service", "Status", and "Notes". The table contains one row for "Google Maps API v3" with a status of "ON" and a note indicating a "Courtesy limit: 25,000 requests/day" and a link to "Pricing".

Google APIs Console

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

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Google apis

We are improving the experience. Try the new [Cloud Console](#).

API Project

All (71) Active (1) Inactive (70) Google Cloud Platform

Active services

Select services for the project.

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

The screenshot shows the Google Developers Console interface. A modal dialog box is centered on the screen, titled "Welcome to Google Cloud Platform". The dialog contains the following text: "Use the same infrastructure that powers Google's own applications." Below this, there are two checked checkboxes: "I have read and agree to all Terms of Service for the Google Cloud Platform products." and "I'd like to receive email about Google Cloud Platform updates, special offers, and events." At the bottom of the dialog, there is a blue "Continue" button highlighted with a red border, and a "Learn more" link. The background shows a list of APIs with their status (ON/OFF) and a sidebar with navigation options.

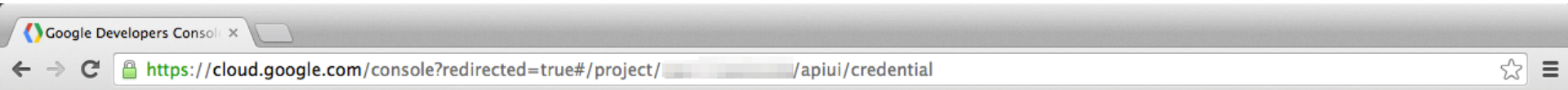
NAME	STATUS
Google M	ON
Ad Excha	OFF
Ad Excha	OFF
Admin SD	OFF
AdSense	OFF
AdSense	OFF
Analytics API	OFF
Audit API	OFF
BigQuery API	OFF
Blogger API v3	OFF
Books API	OFF
CalDAV API	OFF
Calendar API	OFF
Chrome Web Store API	OFF

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, a navigation menu lists various services: API Project, Overview, APIs & auth (with "APIs" selected), Credentials, Consent screen, Notification endpoints, Permissions, Settings, Support, Compute Engine, Cloud Storage, Cloud SQL, BigQuery, and Cloud Development. The main content area features a red-bordered box highlighting the "Google Maps API v3" section. This section shows the API is "ON" (indicated by a green button), along with links for "Quota" and "Reports". Below this, a descriptive text states: "The Google Maps API lets you embed Google Maps in your own web pages with Javascript." followed by a "Learn more" link. At the bottom right of the page, there are links for "Return to original console", "Send feedback", "Follow us", and "Privacy & Terms".

Credentials: Public API access

Get Google Maps API Key



< API Project

Overview

APIs & auth

APIs

Credentials

Consent screen

Notification endpoints

Permissions

Settings

Support

Compute Engine

Cloud Storage

Cloud SQL

BigQuery [↗](#)

Cloud Development

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](#)

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](#)

API key

Key for browser applications

API key	AIzaSyBk9zQmepC [redacted]
Referers	Any referer allowed
Activation date	[redacted]
Activated by	[redacted]@gmail.com (you)

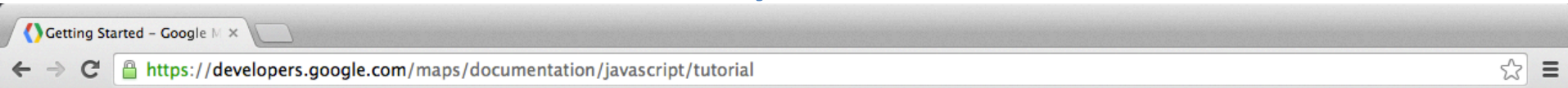
[Edit allowed referers](#)

[Regenerate key](#)

[Delete](#)

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

Google Map JavaScript API

Hello, World

```
<!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>
```

API key

API_KEY

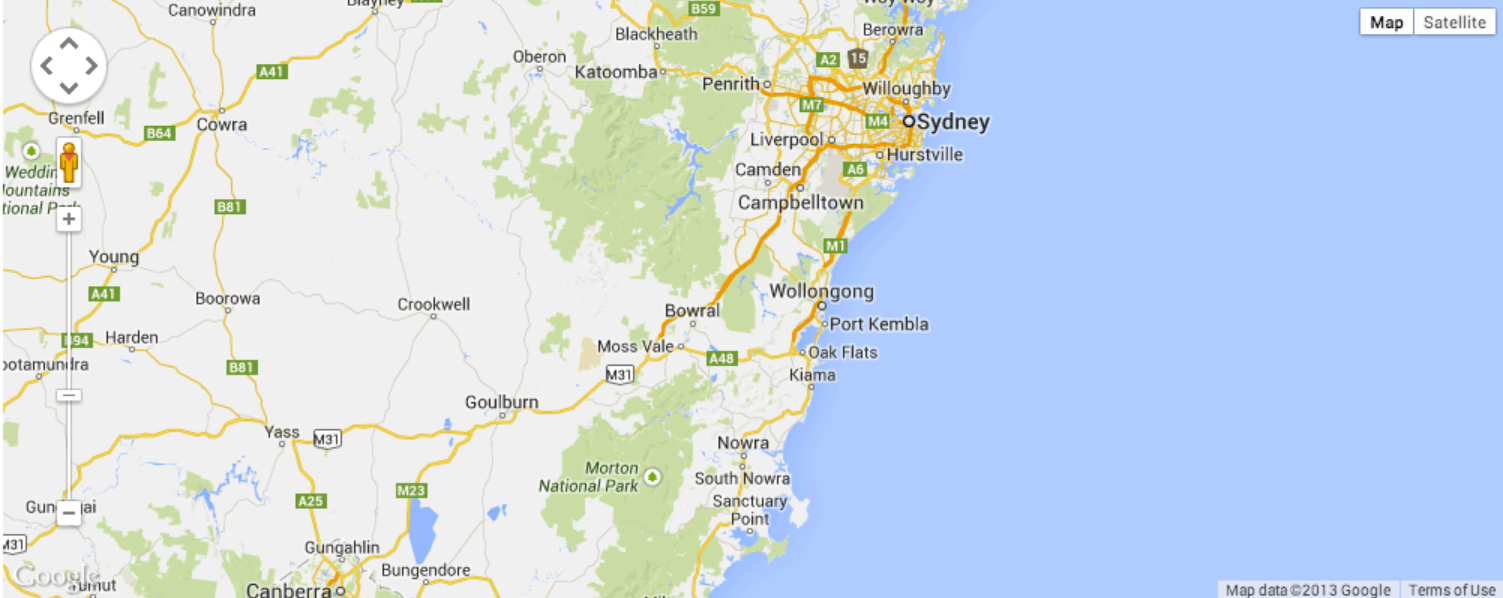
Google Maps JavaScript API: Simple Map

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



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>
```



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

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/>
- Google Maps Platform,
<https://cloud.google.com/maps-platform/>