

Embed Maps Using the Google Maps API



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Module Goals



Using Google Maps

Embed a map

Display markers and info windows

Reorient map between two markers



Why Google Maps?

Most features of all mapping software

Easy to use

Large community for help

Looks professional



Google Maps

Sign up for developer key

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

Need to provide credit card

You probably won't go over
your \$200 credit each month



Embed a Google Map

```
<div id="map"></div>
```

```
<script>
```

```
  'use strict':
```

```
function drawMap() {  
  // Create a lat/lng object  
  // Create map options  
  // Create new google map  
}
```

```
</script>
```

```
<script
```

```
  src="https://maps.googleapis.com/maps/api/js?key=YOUR_KEY_HERE  
    &callback=drawMap"  
  type="text/javascript">
```

```
</script>
```



Embed a Google Map

```
function drawMap() {  
    // Create a lat/lng object  
    let pos = new google.maps.LatLng(36.036020, -86.787600);  
  
    // Create map options  
    let mapOptions = {  
        center: pos, zoom: 16,  
        mapTypeId: google.maps.MapTypeId.ROADMAP  
    };  
  
    // Create new google map  
    let map = new google.maps.Map(  
        document.getElementById("map"), mapOptions);  
}
```



Demo



Embed a Google Map



Demo



Load Google Maps dynamically



Demo



Add a marker and title



Demo



Add an informational window



Demo



Use picture for marker



Demo



Two markers and info windows

Reorient map to include both markers



Demo



Create array of map objects

Ask user for location and add to array

Create marker at user's location



Module Summary



Google maps has a lot of neat features

Embed with very little code

Get a developer key

Add markers and info windows

- Add visual interest
- Convey more info

Customize markers as you see fit

- Make them unique to the address

Can reorient map as needed





Coming up next...

Getting Directions with Google Maps

- Directions from user to pie shop
- Display text directions

