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/map s-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);
```



Embed a Google Map





Load Google Maps dynamically





Add a marker and title





Add an informational window





Use picture for marker





Two markers and info windows

Reorient map to include both markers





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

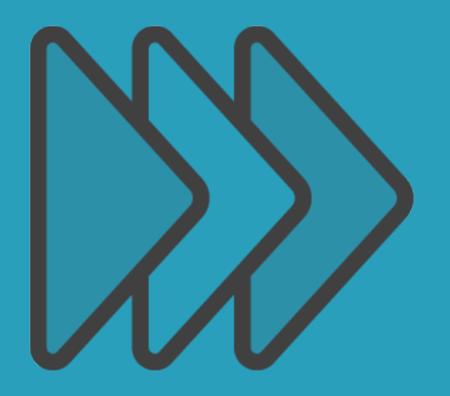
- Add visual interest
- Convey more info

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

