

PhoneGap Plugins

Camera and Mapping



PhoneGap Camera Plugin


```
41  
42         <h4>Camera Test</h4>  
43     <div id="camera">  
44         <button class="camera-control" onclick="capturePhoto();">Capture Photo</button>  
45  
46         <div style="text-align:center;margin:20px;">  
47  
48             <img id="cameraPic" src="" style="width:auto;height:120px;"></img>  
49         </div>  
50     </div>  
51  
52
```

Create HTML

Add a button that calls a function and an img id to receive a preview of the photo.


```
49 <feature name="http://api.phonegap.com/1.0/camera"/>
50 <feature name="http://api.phonegap.com/1.0/contacts"/>
51 <feature name="http://api.phonegap.com/1.0/file"/>
52 <feature name="http://api.phonegap.com/1.0/geolocation"/>
53 <feature name="http://api.phonegap.com/1.0/media"/>
54 <feature name="http://api.phonegap.com/1.0/notification"/>
55 <gap:plugin name="org.apache.cordova.camera" />
56 <gap:plugin name="org.apache.cordova.contacts" />
57 <gap:plugin name="org.apache.cordova.device-orientation" />
58 <gap:plugin name="org.apache.cordova.device-motion" />
59 <gap:plugin name="org.apache.cordova.dialogs" />
```

Include the plugin

edit config.xml in two places.

ex. line 49 and 55


```
<script src="js/camera.js"></script>  
  <script src="phonegap.js"></script>  
  <script src="barcodescanner.js"></script>
```

Adding JavaScript

First create camera.js and link the file.


```

1 //contains code needed for camera plugin
2
3 function capturePhoto(){
4     //alert("capture button working");
5     navigator.camera.getPicture(uploadPhoto,null,{sourceType:1,quality:60});
6 }
7
8 function uploadPhoto(data){
9     // this is where you would send the image file to server
10
11
12     cameraPic.src = data;
13     //cameraPic.src = "data:image/jpeg;base64," + data;
14     // Successful upload to the server
15     navigator.notification.alert(
16         'Your Photo has been uploaded', // message
17         okay, // callback
18         'Photo Uploaded', // title
19         'OK' // buttonName
20     );
21
22 }
23
24 function okay(){
25     // Do something
26 }
27










```

camera.js



Mobile Mapping with PhoneGap


Using Google Maps with PhoneGap

← → ↻ <https://code.google.com/apis/console/?noredirect#project:1016705757312:overview>         

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Google apis

API Project ▼

- Overview
- Services
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- API Access
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- Reports
- Quotas

Dashboard

Project Summary	
Label	API Project
Project ID	1016705757312
Project Name	Register...
Google+ Page	Request connection
Owners	stevenamyking@gmail.com - you
Current charges	Click here to administer your billing settings...

Service	Status
 Custom Search API	 No known issues
 Google Maps JavaScript API v3	 No known issues

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Sign Up for API

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

	Google Maps Geolocation API		<input type="checkbox"/> OFF	Courtesy limit: 0 requests/day • Pricing
	Google Maps JavaScript API v3		<input checked="" type="checkbox"/> ON	Courtesy limit: 25,000 requests/day • Pricing
	Google Maps SDK for iOS		<input type="checkbox"/> OFF	
	Google Maps Tracks API		<input type="checkbox"/> OFF	

Select JavaScript v3 Map API

Turn on Services


```
50 <feature name="http://api.phonegap.com/1.0/contacts" />
51 <feature name="http://api.phonegap.com/1.0/file" />
52 <feature name="http://api.phonegap.com/1.0/geolocation" />
53 <feature name="http://api.phonegap.com/1.0/media" />
54 <feature name="http://api.phonegap.com/1.0/notification" />
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59 <gap:plugin name="org.apache.cordova.dialogs" />
60 <gap:plugin name="org.apache.cordova.file" />
61 <gap:plugin name="org.apache.cordova.file-transfer" />
62 <gap:plugin name="org.apache.cordova.inappbrowser" />
63 <gap:plugin name="org.apache.cordova.media" />
64 <gap:plugin name="org.apache.cordova.splashscreen" />
65 <gap:plugin name="org.apache.cordova.vibration" />
66 <gap:plugin name="org.apache.cordova.geolocation" />
67 <icon src="img/icons/AppIcon57x57.png" gap:platform="ios" wid
```

Config.xml to add plugin

Lines 52 and 66


```
138 -
139 <script type="text/javascript"
140 -   src="https://maps.googleapis.com/maps/api/js?key=AIzaSyCbIJVzcMQ4tkDKJTKWwcNn9qaP2CL
141 </script>
142
143 -
144 <script src="js/map.js"></script>
145
```

Text

Link JavaScript

Add API Key and link map.js


```
1 function onError(error) {  
2     console.log("onError()");  
3     alert('code: ' + error.code + '\n' +  
4         'message: ' + error.message + '\n');  
5 }  
6
```

map.js 1 of 3


```

6
7 function generateMap(position) {
8     console.log("generateMap()");
9     console.log(position.coords.latitude);
10    console.log(position.coords.longitude);
11    var currentLatLng = new google.maps.LatLng(position.coords.latitude, position.coords.longitude);
12
13    var mapOptions = {
14        //center: new google.maps.LatLng(-34.397, 150.644),
15        center: currentLatLng,
16        zoom: 8
17    };
18    var map = new google.maps.Map(document.getElementById("map-canvas"),
19        mapOptions);
20
21    var marker = new google.maps.Marker({
22        position: currentLatLng,
23        map: map,
24        title: 'Current Location'
25    });
26 }
27
28

```

map.js 2 of 3

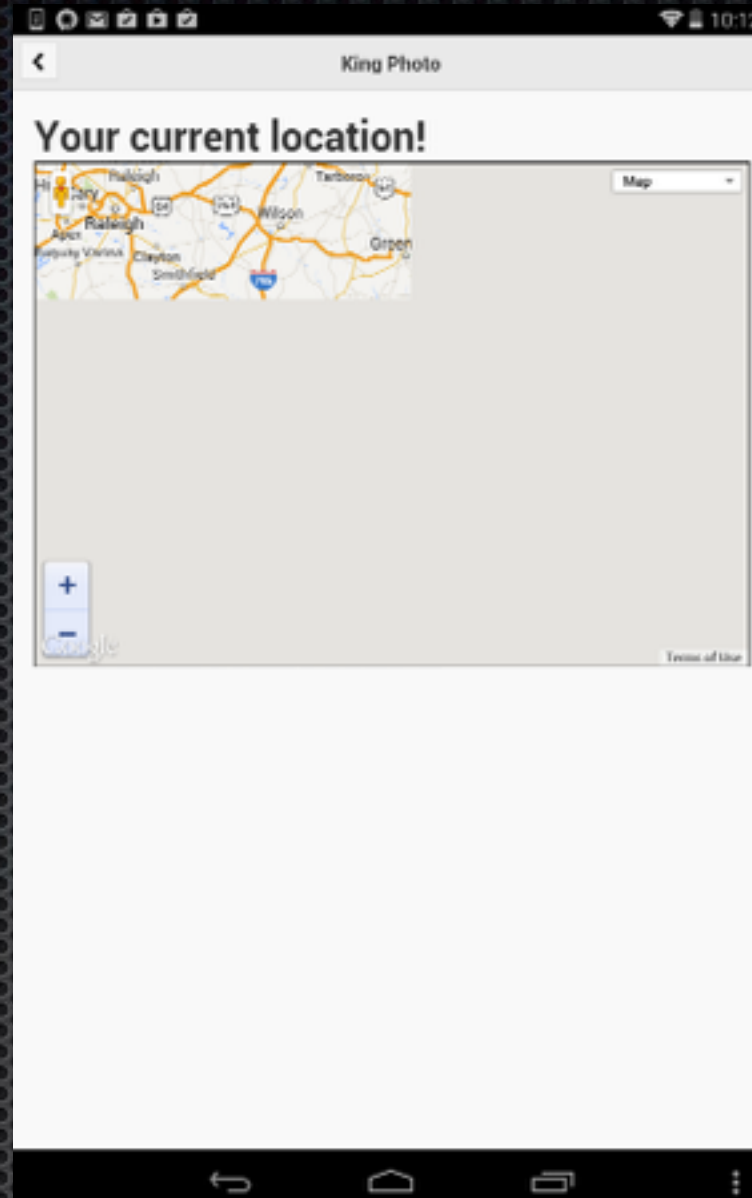

```
28 |
29 /* For Browser testing. Comment out for app testing.*/
30 var position = {
31     coords: {latitude: -34.397, longitude: 150.644}
32 }
33 console.log(position.coords.latitude);
34
35
36 google.maps.event.addDomListener(window, 'load', generateMap(position));
37
```

map.js 3 of 3


```

1 function onError(error) {
2     console.log("onError()");
3     alert('code: ' + error.code + '\n' +
4           'message: ' + error.message + '\n');
5 }
6
7 function generateMap(position) {
8     console.log("generateMap()");
9     console.log(position.coords.latitude);
10    console.log(position.coords.longitude);
11    var currentLatLng = new google.maps.LatLng(position.coords.latitude, position.coords.
12
13    var mapOptions = {
14        //center: new google.maps.LatLng(-34.397, 150.644),
15        center: currentLatLng,
16        zoom: 8
17    };
18    var map = new google.maps.Map(document.getElementById("map-canvas"),
19        mapOptions);
20
21    var marker = new google.maps.Marker({
22        position: currentLatLng,
23        map: map,
24        title: 'Current Location'
25    });
26 }
27
28
29 /* For Browser testing. Comment out for app testing.
30 *
31 *var position ={
32     coords:{latitude:-34.397, longitude:150.644}
33 }
34 console.log(position.coords.latitude);
35
36
37 google.maps.event.addDomListener(window, 'load',generateMap(position));
38 */

```

Display Problem?

Let's Fix it!


```
25  
26  
27     });  
28     google.maps.event.trigger(map, "resize");  
29 }  
30
```

Need to resize after screen loads

Add to the end of the generateMap function