

Slide 12.12: Handling Geolocation errors and rejections

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## Displaying a Map

This example displays the map including the user's location:

Display the Map!

To display the map including the user's location, you need access to a map service that can use latitude and longitude, like Google Maps. [Google Maps Image APIs](#) are a powerful tool for developers to integrate Google Maps into their websites such as location-based apps, maps for mobile apps, geospatial data visualization, map customization, to name a few. A Google Static Maps API URL must be of the following form:

```
http://maps.googleapis.com/maps/api/staticmap?parameters
```

For example,

```
var url = "http://maps.googleapis.com/maps/api/staticmap?";  
url += "center=-15.800513,-47.91378&"; // latitude,longitude  
url += "zoom=11&"; // zoom level  
url += "size=200x200&"; // rectangular dimensions  
url += "sensor=false"; // no sensor for location  
mapholder.innerHTML = "<img src='" + url + "'>";
```

JavaScript is required to use Google Maps APIs, so server-side scripts are not needed. The JavaScript APIs allow developers to retrieve static map images, perform geocoding, generate driving directions, and obtain elevation profiles in a simple way.

```
<!DOCTYPE HTML>  
<html>  
  <body>  
    Click the button to display the map:  
    <button onClick="getLocation( )">Display the Map!</button>  
    <p id="mapholder"></p>  
  
    <script>  
      var mapholder = document.getElementById( "mapholder" );
```

```

function getLocation( ) {
  if ( navigator.geolocation )
    navigator.geolocation.getCurrentPosition( showPosition );
  else
    mapholder.innerHTML = "Geolocation is not supported by this browser.";
}

function showPosition( position ) {
  var latlon  = position.coords.latitude + ",";
    latlon  += position.coords.longitude;
  var img_url = "http://maps.googleapis.com/maps/api/staticmap?center=";
    img_url += latlon + "&zoom=14&size=400x300&sensor=false";
  mapholder.innerHTML = "";
}
</script>
</body>
</html>

```

## Demonstration

The following demonstration shows how the HTML5 script is displayed on the Web.

Display the HTML
Reset

```

<html>
<head><title>HTML Working Area</title></head>
<body>

  Click the button to display the map:
  <button onClick="getLocation( )">Display the Map!
</button>
  <p id="mapholder"></p>

  <script>
    var mapholder = document.getElementById( "mapholder"
  );

    function getLocation( ) {
      if ( navigator.geolocation )
        navigator.geolocation.getCurrentPosition(
showPosition );
      else
        mapholder.innerHTML = "Geolocation is not supported

```

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