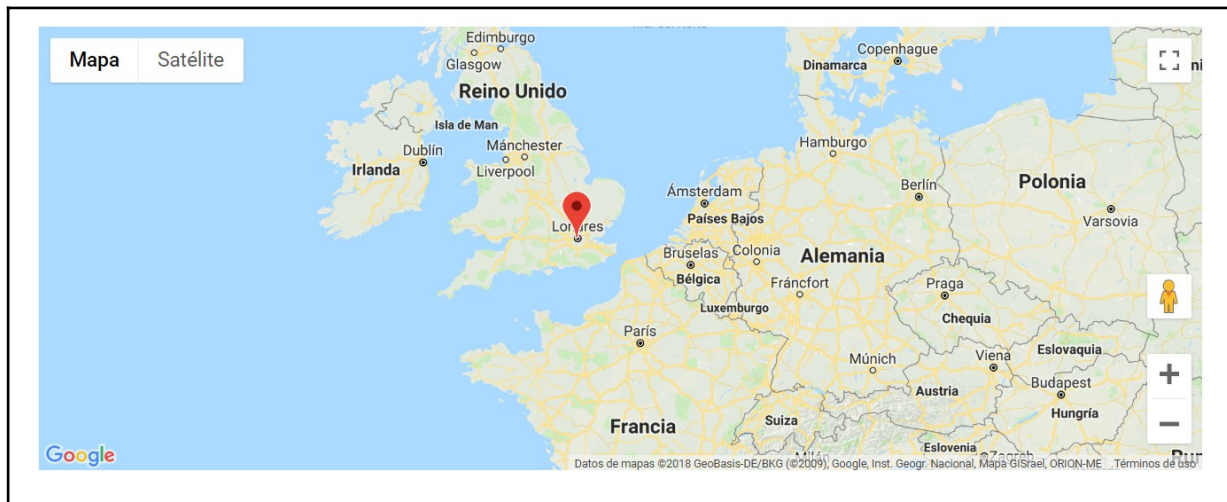


## 04. GOOGLE MAPS Events.

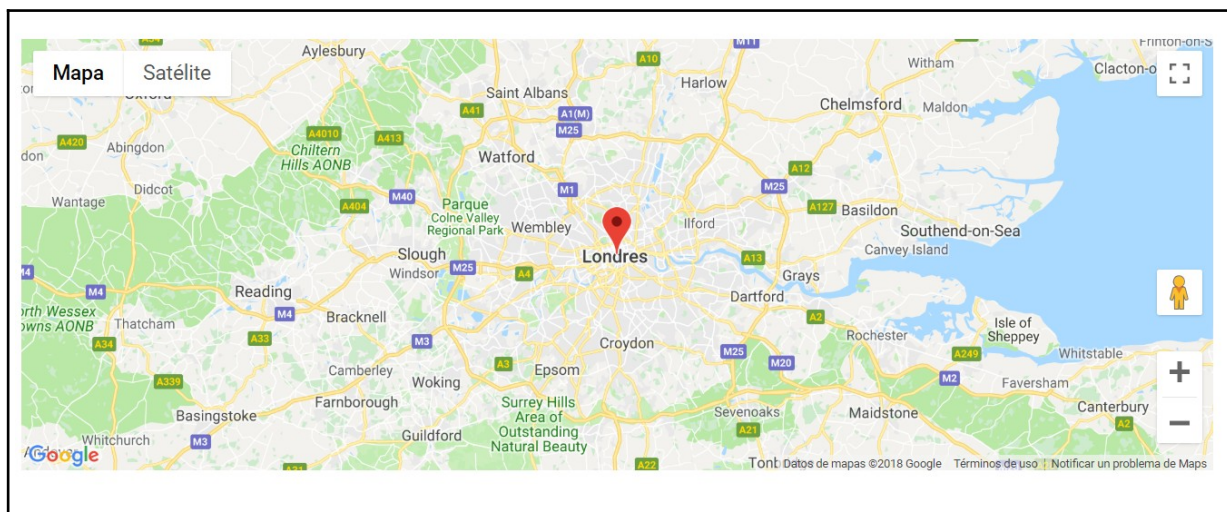
### 4.1. Google Maps Events

Click the marker to zoom - attach event handlers to Google maps.

**Example:** Before clicking on the marker.



**Example:** After clicking on the marker.



## 4.2. Google Maps Overlays

We still use the map from the previous page: a map centered on London, England.

Now we want to zoom when a user is clicking on the marker (We attach an event handler to a marker that zooms the map when clicked).

**Example:** Here is the added code:

```
// Zoom to 9 when clicking on marker
google.maps.event.addListener(marker, 'click', function() {
    map.setZoom(9);
    map.setCenter(marker.getPosition());
});
```

We register for event notifications using the `addListener()` event handler. That method takes an object, an event to listen for, and a function to call when the specified event occurs.

## 4.3. Pan Back to Marker

Here, we save the zoom changes and pan the map back after 3 seconds:

**Example:**

```
google.maps.event.addListener(marker, 'click', function() {
    var pos = map.getZoom();
    map.setZoom(9);
    map.setCenter(marker.getPosition());
    window.setTimeout(function() {map.setZoom(pos);}, 3000);
});
```

## 4.4. Open an InfoWindow When Clicking on The Marker

Click on the marker to show an infowindow with some text:

**Example:**

```
var infowindow = new google.maps.InfoWindow({
```

```
        content:"Hello World!"
    });

    google.maps.event.addListener(marker, 'click', function() {
        infowindow.open(map,marker);
    });
```

## 4.5. Set Markers and Open InfoWindow for Each Marker

Run a function when the user clicks on the map.

The **placeMarker()** function places a marker where the user has clicked, and shows an infowindow with the latitudes and longitudes of the marker:

**Example:**

```
google.maps.event.addListener(map, 'click', function(event) {
    placeMarker(map, event.latLng);
});

function placeMarker(map, location) {
    var marker = new google.maps.Marker({
        position: location,
        map: map
    });
    var infowindow = new google.maps.InfoWindow({
        content: 'Latitude: ' + location.lat() +
        '<br>Longitude: ' + location.lng()
    });
    infowindow.open(map,marker);
}
```