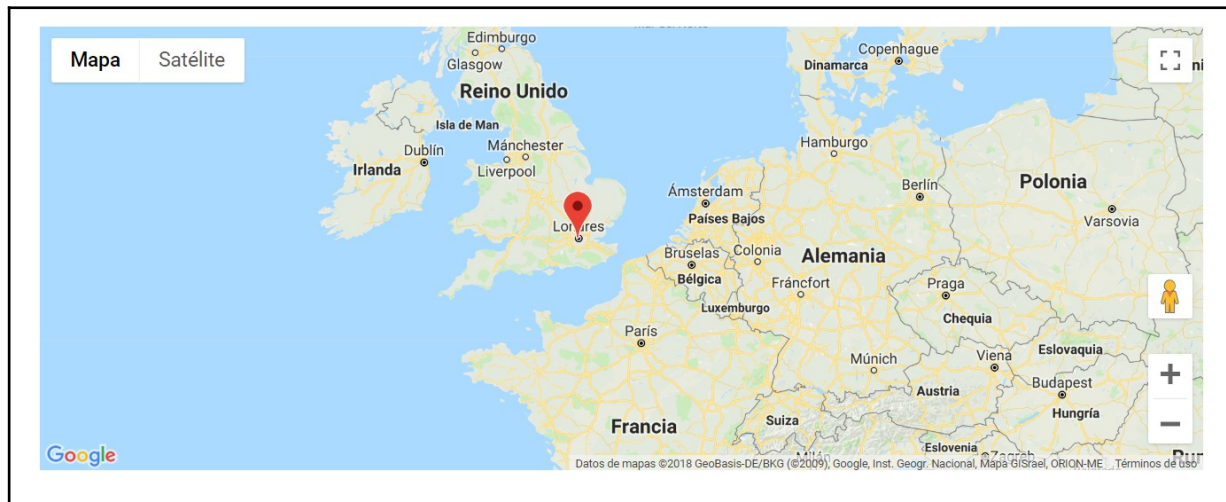


## 05. GOOGLE MAPS Controls.

### 5.1. Google Maps Controls

A Google map - with the default control set:

**Example:** Default controls.



### 5.2. Google Maps – The Default Controls

When showing a standard Google map, it comes with the default control set:

- **Zoom** - displays a slider or "+/-" buttons to control the zoom level of the map
- **Pan** - displays a pan control for panning the map
- **MapType** - lets the user toggle between map types (roadmap and satellite)
- **Street View** - displays a Pegman icon which can be dragged to the map to enable Street View

### 5.3. Google Maps – More Controls

In addition to the default controls, Google Maps also has:

- **Scale** - displays a map scale element
- **Rotate** - displays a small circular icon which allows you to rotate maps
- **Overview Map** - displays a thumbnail overview map reflecting the current map viewport within a wider area

You can specify which controls to show when creating the map (inside MapOptions) or by calling `setOptions()` to change the map's options.

## 5.4. Google Maps - Disabling The Default Controls

You may instead wish to turn off the default controls. To do so, set the Map's `disableDefaultUI` property (within the Map options object) to true:

**Example:**

```
var mapOptions {disableDefaultUI: true}
```

## 5.5. Google Maps - Turn On All Controls

Some controls appear on the map by default; while others will not appear unless you set them.

Adding or removing controls from the map is specified in the Map options object.

Set the control to true to make it visible - Set the control to false to hide it.

**Example:** The following example turns "on" all controls:

```
var mapOptions {  
  panControl: true,  
  zoomControl: true,  
  mapTypeControl: true,  
  scaleControl: true,  
  streetViewControl: true,  
  overviewMapControl: true,  
  rotateControl: true  
}
```

## 5.6. Google Maps - Modifying Controls

Several of the map controls are configurable. The controls can be modified by specifying control options fields.

For example, options for modifying a Zoom control are specified in the `zoomControlOptions` field. The `zoomControlOptions` field may contain:

- **google.maps.ZoomControlStyle.SMALL** - displays a mini-zoom control (only + and - buttons)
- **google.maps.ZoomControlStyle.LARGE** - displays the standard zoom slider control
- **google.maps.ZoomControlStyle.DEFAULT** - picks the best zoom control based on device and map size

**Example:**

```
zoomControl: true,  
zoomControlOptions: {  
  style: google.maps.ZoomControlStyle.SMALL  
}
```

**Note:** If you modify a control, always enable the control first (set it to true).

Another configurable control is the **MapType** control.

Options for modifying a control are specified in the **mapTypeControlOptions** field. The **mapTypeControlOptions** field may contain::

- **google.maps.MapTypeControlStyle.HORIZONTAL\_BAR** - display one button for each map type
- **google.maps.MapTypeControlStyle.DROPDOWN\_MENU** - select map type via a dropdown menu
- **google.maps.MapTypeControlStyle.DEFAULT** - displays the "default" behavior (depends on screen size)

**Example:**

```
mapTypeControl: true,  
mapTypeControlOptions: {  
  style: google.maps.MapTypeControlStyle.DROPDOWN_MENU  
}
```

You can also position a control, with the **ControlPosition** property:

**Example:**

```
mapTypeControl: true,  
mapTypeControlOptions: {  
  style: google.maps.MapTypeControlStyle.DROPDOWN_MENU,  
  position: google.maps.ControlPosition.TOP_CENTER  
}
```