

# Heatmaps



View this example [full screen](#).

JavaScript

JavaScript + HTML

```
// Adding 500 Data Points
var map, pointarray, heatmap;

var taxiData = [
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function initialize() {
  var mapOptions = {
    zoom: 13,
    center: new google.maps.LatLng(37.774546, -122.433523),
    mapTypeId: google.maps.MapTypeId.SATELLITE
  };

  map = new google.maps.Map(document.getElementById('map-canvas'),
    mapOptions);

  var pointArray = new google.maps.MVCArray(taxiData);

  heatmap = new google.maps.visualization.HeatmapLayer({
    data: pointArray
  });

  heatmap.setMap(map);
}

function toggleHeatmap() {
  heatmap.setMap(heatmap.getMap() ? null : map);
}

function changeGradient() {
  var gradient = [
    'rgba(0, 255, 255, 0)',
    'rgba(0, 255, 255, 1)',
    'rgba(0, 191, 255, 1)',
    'rgba(0, 127, 255, 1)',
    'rgba(0, 63, 255, 1)',
    'rgba(0, 0, 255, 1)',
    'rgba(0, 0, 223, 1)',
    'rgba(0, 0, 191, 1)',
    'rgba(0, 0, 159, 1)',
    'rgba(0, 0, 127, 1)',
    'rgba(63, 0, 91, 1)',
  ];
```

```
'rgba(127, 0, 63, 1)',  
'rgba(191, 0, 31, 1)',  
'rgba(255, 0, 0, 1)'  
]  
heatmap.set('gradient', heatmap.get('gradient') ? null : gradient);  
}  
  
function changeRadius() {  
  heatmap.set('radius', heatmap.get('radius') ? null : 20);  
}  
  
function changeOpacity() {  
  heatmap.set('opacity', heatmap.get('opacity') ? null : 0.2);  
}  
  
google.maps.event.addDomListener(window, 'load', initialize);
```

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Last updated March 17, 2015.