Google
Developers

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Products   Google Maps API   Google Maps JavaScript API v3

Place Autocomplete

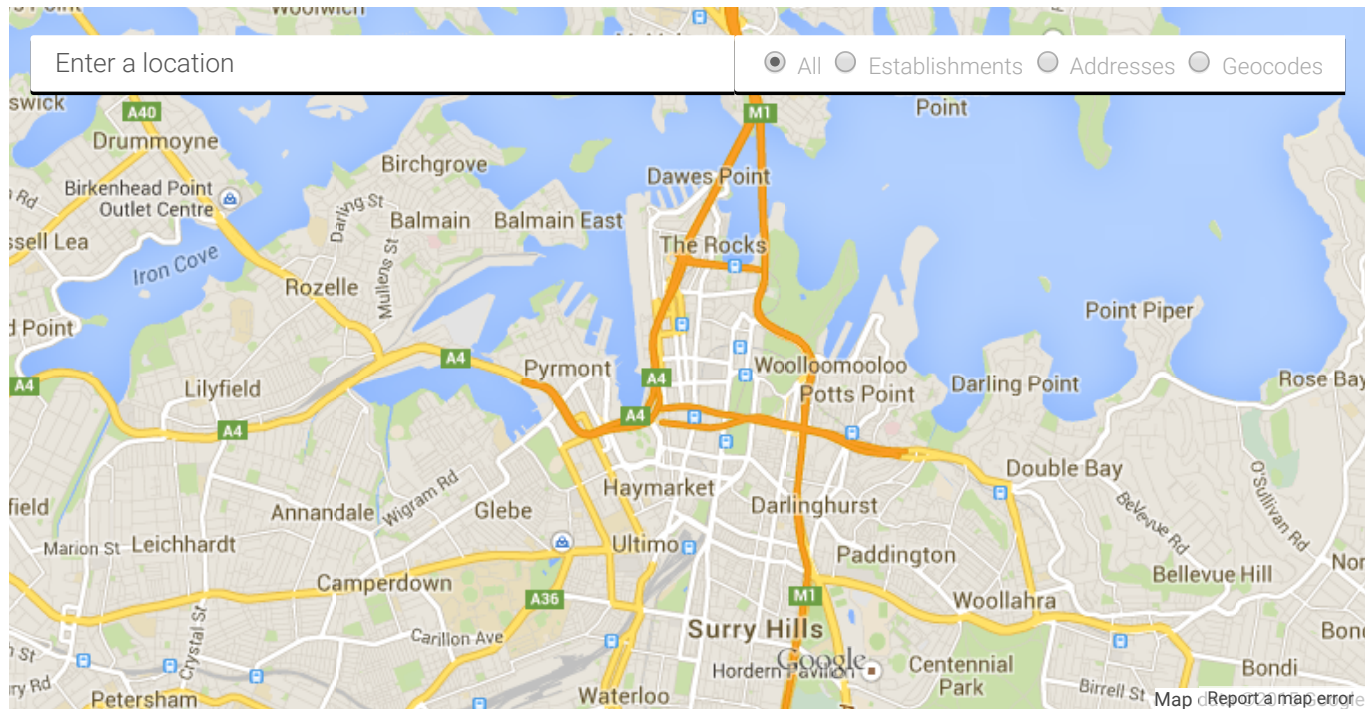| Enter a location | ◉ All ○ Establishments ○ Addresses ○ Geocodes |

View this example full screen.

JavaScript   JavaScript + HTML

```
function initialize() {
  var mapOptions = {
    center: new google.maps.LatLng(-33.8688, 151.2195),
    zoom: 13
  };
  var map = new google.maps.Map(document.getElementById('map-canvas'),
    mapOptions);

  var input = /** @type {HTMLInputElement} */(
      document.getElementById('pac-input'));

  var types = document.getElementById('type-selector');
  map.controls[google.maps.ControlPosition.TOP_LEFT].push(input);
  map.controls[google.maps.ControlPosition.TOP_LEFT].push(types);

  var autocomplete = new google.maps.places.Autocomplete(input);
  autocomplete.bindTo('bounds', map);

  var infowindow = new google.maps.InfoWindow();
  var marker = new google.maps.Marker({
```

```javascript
      map: map,
      anchorPoint: new google.maps.Point(0, -29)
    });

    google.maps.event.addListener(autocomplete, 'place_changed', function() {
      infowindow.close();
      marker.setVisible(false);
      var place = autocomplete.getPlace();
      if (!place.geometry) {
        return;
      }

      // If the place has a geometry, then present it on a map.
      if (place.geometry.viewport) {
        map.fitBounds(place.geometry.viewport);
      } else {
        map.setCenter(place.geometry.location);
        map.setZoom(17);  // Why 17? Because it looks good.
      }
      marker.setIcon(/** @type {google.maps.Icon} */({
        url: place.icon,
        size: new google.maps.Size(71, 71),
        origin: new google.maps.Point(0, 0),
        anchor: new google.maps.Point(17, 34),
        scaledSize: new google.maps.Size(35, 35)
      }));
      marker.setPosition(place.geometry.location);
      marker.setVisible(true);

      var address = '';
      if (place.address_components) {
        address = [
          (place.address_components[0] && place.address_components[0].short_name || ''),
          (place.address_components[1] && place.address_components[1].short_name || ''),
          (place.address_components[2] && place.address_components[2].short_name || '')
        ].join(' ');
      }

      infowindow.setContent('<div><strong>' + place.name + '</strong><br>' + address);
      infowindow.open(map, marker);
    });

    // Sets a listener on a radio button to change the filter type on Places
    // Autocomplete.
    function setupClickListener(id, types) {
      var radioButton = document.getElementById(id);
      google.maps.event.addDomListener(radioButton, 'click', function() {
        autocomplete.setTypes(types);
      });
    }

    setupClickListener('changetype-all', []);
    setupClickListener('changetype-address', ['address']);
    setupClickListener('changetype-establishment', ['establishment']);
    setupClickListener('changetype-geocode', ['geocode']);
}

google.maps.event.addDomListener(window, 'load', initialize);
```