PRINT
VERSION

Displaying a Direction

This example shows how to draw a direction by using Google Maps:

Start: [Streibel Hall ▼]   End: [Memorial Union ▼]

Line-by-line explanations of the code are given as follows:

Line 33: new google.maps.DirectionsService( );

It is a class for computing directions between two or more places.

Line 37: new google.maps.DirectionsRenderer( );

Renders directions retrieved in the form of a `DirectionsResult` object retrieved from the `DirectionsService`.

Line 46: directionsDisplay.setMap(map);

This method specifies the map on which directions will be rendered.
Pass null to remove the directions from the map.

Line 55: travelMode: google.maps.DirectionsTravelMode.WALKING

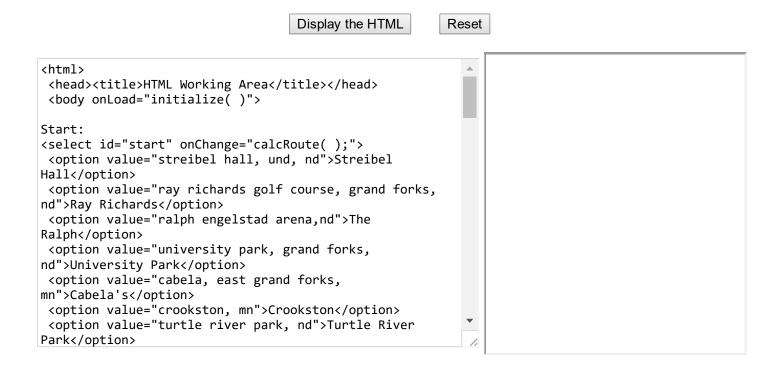The valid travel modes include:

- BICYCLING—Specifies a bicycling directions request.
- DRIVING—Specifies a driving directions request.
- TRANSIT—Specifies a transit directions request.
- WALKING—Specifies a walking directions request.

```
01  <!DOCTYPE HTML>
02  <html>
03   <body onLoad="initialize( )">
04    Start:
05    <select id="start" onChange="calcRoute( );">
06     <option value="streibel hall, und, nd">Streibel Hall</option>
07     <option value="ralph engelstad arena,nd">The Ralph</option>
08     <option value="cabela, east grand forks, mn">Cabela</option>
09     <option value="turtle river park, nd">Turtle River Park</option>
10     <option value="grand forks AFB, nd">GF AFB</option>
11     <option value="university of north dakota, nd">UND</option>
12     <option value="city hall, grand forks, nd">City Hall</option>
13    </select>
14
15    End:
16    <select id="end" onChange="calcRoute( );">
17     <option value="ralph engelstad arena,nd">The Ralph</option>
18     <option value="streibel hall, und, nd">Streibel Hall</option>
19     <option value="cabela, east grand forks, mn">Cabela</option>
20     <option value="turtle river park, nd">Turtle River Park</option>
21     <option value="grand forks AFB, nd">GF AFB</option>
22     <option value="university of north dakota, nd">UND</option>
23     <option value="city hall, grand forks, nd">City Hall</option>
24    </select>
25
26    <div id="map_canvas" style="width:96%;height:400px">
27    </div>
28
29    <script src="https://maps.googleapis.com/maps/api/js?v=3.exp&sensor=false">
30    </script>
31    <script>
32     var  directionsDisplay;
33     var  directionsService = new google.maps.DirectionsService( );
34     var  map;
35
36     function  initialize( ) {
37      directionsDisplay = new google.maps.DirectionsRenderer( );
38      var  GF = new google.maps.LatLng( 47.92525699999999, -97.032855 );
39      var  mapOptions = {
40       zoom: 14,
```

```
41        mapTypeId: google.maps.MapTypeId.ROADMAP,
42        center: GF
43       }
44      map = new google.maps.Map(
45       document.getElementById('map_canvas'), mapOptions );
46      directionsDisplay.setMap( map );
47     }
48
49     function calcRoute( ) {
50      var  start = document.getElementById('start').value;
51      var  end   = document.getElementById('end').value;
52      var  request = {
53       origin: start,
54       destination: end,
55       travelMode: google.maps.DirectionsTravelMode.WALKING
56      };
57      directionsService.route( request, function( response, status ) {
58       if ( status == google.maps.DirectionsStatus.OK )
59        directionsDisplay.setDirections( response );
60      } );
61     }
62    </script>
63   </body>
64 </html>
```

Demonstration

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

<div align="center">

[Display the HTML]   [Reset]

</div>

```
<html>
 <head><title>HTML Working Area</title></head>
 <body onLoad="initialize( )">

Start:
<select id="start" onChange="calcRoute( );">
 <option value="streibel hall, und, nd">Streibel
Hall</option>
 <option value="ray richards golf course, grand forks,
nd">Ray Richards</option>
 <option value="ralph engelstad arena,nd">The
Ralph</option>
 <option value="university park, grand forks,
nd">University Park</option>
 <option value="cabela, east grand forks,
mn">Cabela's</option>
 <option value="crookston, mn">Crookston</option>
 <option value="turtle river park, nd">Turtle River
Park</option>
```