

Slide 12.16: Displaying a direction

Slide 13.1: XML (eXtensible Markup Language)

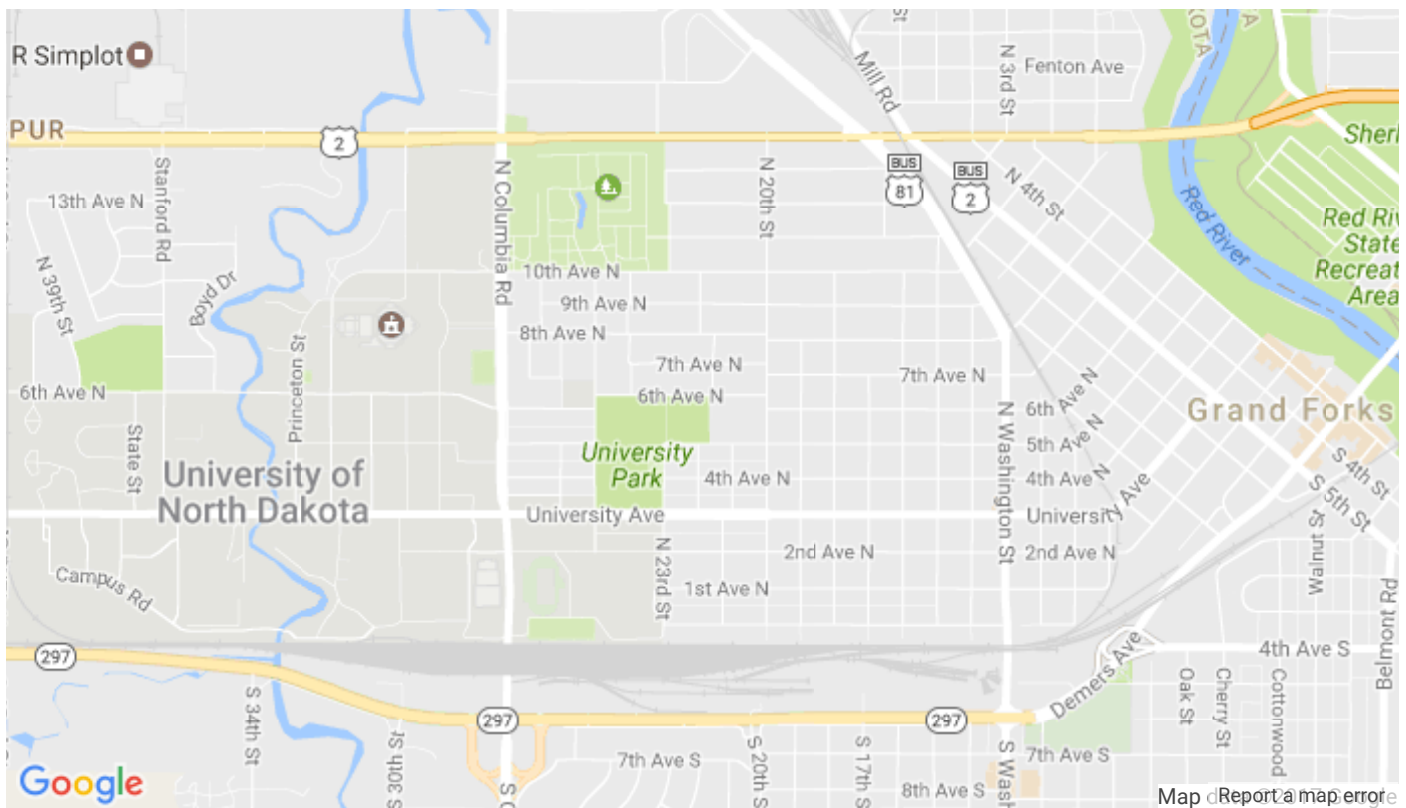
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## Displaying a Direction (Cont.)

This example is the same as the one of the previous slide:

Start:  End:



Line-by-line explanations of the code are given as follows (cont.):

Line 57: `directionsService.route(`

Line 57: `request, function( response, status ) {`

It initiates a directions request to the DirectionsService with the route method, which requires passing a callback which executes upon completion of the service request. This callback will return a [DirectionsResult](#) and a [DirectionsStatus](#) code in the response.

## Line 58: `if ( status == google.maps.DirectionsStatus.OK )`

The status returned by the DirectionsService on the completion of a call to route includes:

- `INVALID_REQUEST`—The DirectionsRequest provided was invalid.
- `MAX_WAYPOINTS_EXCEEDED`—Too many DirectionsWaypoints were provided in the DirectionsRequest.
- `NOT_FOUND`—At least one of the origin, destination, or waypoints could not be geocoded.
- `OK`—The response contains a valid DirectionsResult.
- `OVER_QUERY_LIMIT`—The Webpage has gone over the requests limit in too short a period of time.
- `REQUEST_DENIED`—The Webpage is not allowed to use the directions service.
- `UNKNOWN_ERROR`—A directions request could not be processed due to a server error.
- `ZERO_RESULTS`—No route could be found between the origin and destination.

## Line 59: `directionsDisplay.setDirections( response );`

It sets the renderer to use the result from the DirectionsService.

```
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.

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

  <link href="https://google-
developers.appspot.com/maps/documentation/javascript/exam
ples/default.css" rel="stylesheet">
  <script src="https://maps.googleapis.com/maps/api/js?
v=3.exp&sensor=false">
</script>
<script>
  var directionDisplay;
  var directionsService = new
google.maps.DirectionsService( );
  var map;

  function initialize() {
    directionsDisplay = new
google.maps.DirectionsRenderer( );
```

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