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## Module 2.2 - Web-based Mapping Clients: Google Maps API - Part II - Related Topics

#### Overview

- Additional Google Maps API Capabilities to be Aware of
  - Styling of the base maps with custom preferences
  - Fusion Tables
- Bringing it all together in a "real" web page

#### Getting Started with Styled Maps - Video

Styled Maps Documentation | Styled Maps Wizard

[Figure 1 about here.]

#### Map Example: Simple - Styled

```
<!DOCTYPE html>
   <html>
   <head>
   <style type="text/css">
     html { height: 100% }
     body { height: 100%;
       margin: Opx;
       padding: Opx;
       background-color: black;
       color: #CCCCCC;
10
       text-align: center}
11
     #map_canvas { width:90%;
12
       height:80%;
13
       margin-left:
14
       auto;
15
       margin-right: auto }
16
   </style>
17
   <script type="text/javascript"</pre>
       src="http://maps.google.com/maps/api/js?v=3.2&sensor=false">
```

```
</script>
20
    <script type="text/javascript">
21
      function initialize() {
22
        var classroom = new google.maps.LatLng(35.084280,-106.624073)
23
        var myOptions = {
24
          zoom: 8,
25
          center: classroom,
          mapTypeId: google.maps.MapTypeId.ROADMAP,
27
          styles: [
29
                     featureType: "water",
                     stylers: [
31
                       { visibility: "on" },
32
                       { hue: "#0008ff" }
33
34
                   },{
35
                     featureType: "road.highway",
36
                     stylers: [
37
                       { hue: "#ff1a00" }
38
                     ]
39
                   },{
40
                     featureType: "road.arterial",
                     stylers: [
42
                       { hue: "#ffa200" },
43
                        { visibility: "simplified" }
44
                     ٦
                   },{
46
                     featureType: "road.local",
                     stylers: [
48
                       { visibility: "off" }
49
50
                   },{
51
                     featureType: "administrative",
52
                     stylers: [
53
                       { visibility: "simplified" }
54
                     ]
55
                   },{
                     featureType: "poi",
57
                     stylers: [
                       { visibility: "on" },
59
                       { hue: "#00ffff" }
60
                     ٦
61
                   },{
62
                     featureType: "poi",
63
                     stylers: [
                       { visibility: "on" }
65
                     ]
66
                   }
67
                 ]
        };
69
        var map = new google.maps.Map(document.getElementById("map_canvas"),
70
            myOptions);
71
72
   </script>
```

http://karlbenedict.com/GEOG485-585/lectures/examples/gmaps\_styled.html

#### Google I/O 2011: Managing and visualizing your geospatial data with Fusion Tables - Video

Some particularly relevant sections: Introduction (0:00 - 10:30) | Google Maps API Integration (21:40 - 34:42) | Summary and Links (52:00 52:40)

Fusion Tables Documentation/Help

[Figure 2 about here.]

#### Bringing It All Together

```
<!DOCTYPE html>
   <html>
       <head>
4
            <meta charset="utf-8" />
5
            <title>Karl's Event Diary</title>
            <link rel="stylesheet" href="./styles/base.css" media="screen">
            <script type="text/javascript" src="http://maps.google.com/maps/api/js?sensor=false"></script>
            <script type="text/javascript" src="./js/base.js"></script>
            <script type="text/javascript">
10
                // Define a set of global coordinates for use throughout the web site
                // Place coordinates derived from GNIS database: http://qeonames.usqs.qov/pls/qnispublic
12
                var eventPlaces = [
14
                        name: "Albuquerque",
                        point: new google.maps.LatLng(35.0889356,-106.5747462),
16
                        label: "Albuquerque: Duke City Half Marathon"
                    },
18
                    {
19
                        name: "Durango",
20
                        point: new google.maps.LatLng(37.2752800,-107.8800667),
21
                        label: "Durango: Animas Valley/Steamworks Half Marathon"
22
23
                    },
                    {
24
                        name: "San Diego",
25
                        point: new google.maps.LatLng(32.7153292,-117.1572551),
26
                        label: "San Diego: San Diego Rock 'n' Roll Marathon"
27
                    },
29
                        name: "San Francisco",
30
```

```
point: new google.maps.LatLng(37.7749295,-122.4194155),
31
                       label: "San Francisco: Nike Women's Marathon"
32
                   },
34
                       name: "Orlando",
                       point: new google.maps.LatLng(28.5383355,-81.3792365),
36
                       label: "Orlando: Walt Disney World half- and full-marathon"
                   },
38
                   {
                       name: "Anaheim",
40
                       point: new google.maps.LatLng(33.8352932,-117.9145036),
                       label: "Anaheim: Disneyland Half Marathon"
42
                   }
43
               ٦
44
           </script>
       </head>
46
47
       <body onload="initialize()">
49
               My diary of endurance events that I've participated in since joining Team in Training
50
           </h1>
51
           In 2008 Cynthia and I joined the Leukemia and Lymphoma Society's (<a href="http://www.lls.or.")</p>
53
           participants to train for the Animas Valley/Steamworks Half Marathon and raise money for blood
54
           research and patient services. In spite of our not having any direct connection to blood cancer
55
           we found the goals of LLS admirable, the combined training and fund-raising program of TNT a g
           new friends over the many seasons that we've been involved with TNT.
57
           Since 2008 we have continued to volunteer with TNT, as participants, mentors, and since 2010
59
           (check out my <a href="http://youtu.be/GMSKG8L6K78#t=2m13s">half-second</a> of fame in the info
60
           for TNT with an emphasis on training walkers for full- or half-marathons. This page provides a
61
           events that I've participated in in some capacity since we became involved with TNT. 
62
63
           <div id="event-map" name="event-map"></div>
64
65
66
           <h2>
               <span class="date">9/1/2013</span>
68
               Disneyland Half Marathon
               <span class="time">2:56:57</span>
70
               (<a href="#event-map" onclick="recenter(map, eventPlaces[5].point, 12)">approx. map</a>)
72
           blah, blah, blah ...
74
           <h2>
               <span class="date">1/13/2013</span>
76
               Disney World Marathon (Goofy - Day 2)
               <span class="time">6:46:57</span>
               (<a href="#event-map" onclick="recenter(map, eventPlaces[4].point, 10)">approx. map</a>)
80
           blah, blah, blah ...
81
           <h2>
83
               <span class="date">1/12/2013</span>
84
```

```
Disney World Half Marathon (Goofy - Day 1)
85
               <span class="time">3:22:48</span>
86
               (<a href="#event-map" onclick="recenter(map, eventPlaces[4].point, 10)">approx. map</a>)
           </h2>
88
           blah, blah, blah ...
90
           <h2>
               <span class="date">9/29/2012</span>
92
               Hot Chocolate 15k
               <span class="time">1:56:46</span>
94
               (no map available)
96
           blah, blah, blah ...
98
           <h2>
               <span class="date">6/9/2012</span>
100
               Animas Valley/Steamworks Half Marathon
101
               <span class="time">no time: coached</span>
102
               (<a href="#event-map" onclick="recenter(map, eventPlaces[1].point, 10)">map</a>)
103
           </h2>
104
           blah, blah, blah ...
105
           <h2>
107
               <span class="date">1/9/2012</span>
108
               Disney World Marathon (Goofy - Day 2)
109
               <span class="time">6:56:28</span>
               (<a href="#event-map" onclick="recenter(map, eventPlaces[4].point, 10)">map</a>)
111
           </h2>
           blah, blah, blah ...
113
           <h2>
115
               <span class="date">1/8/2011</span>
116
               Disney World Half Marathon (Goofy - Day 1)
               <span class="time">3:29:00</span>
118
               (<a href="#event-map" onclick="recenter(map, eventPlaces[4].point, 10)">map</a>)
119
           </h2>
120
           blah, blah, blah ...
122
           <h2>
123
               <span class="date">6/19/2010</span>
124
               Animas Valley/Steamworks Half Marathon
125
               <span class="time">no time: coached</span>
126
               (<a href="#event-map" onclick="recenter(map, eventPlaces[1].point, 10)">map</a>)
127
           </h2>
128
           blah, blah, blah ...
130
           \langle h2 \rangle
131
               <span class="date">6/6/2010</span>
132
               San Diego Rock 'n' Roll Marathon
133
               <span class="time">no time: coached</span>
134
               (<a href="#event-map" onclick="recenter(map, eventPlaces[2].point, 11)">map</a>)
135
136
           blah, blah, blah ...
137
```

138

```
<h2>
139
               <span class="date">10/18/09</span>
140
               Nike Women's Marathon
               <span class="time">7:13:05</span>
142
               (<a href="#event-map" onclick="recenter(map, eventPlaces[3].point, 12)">map</a>)
143
144
           blah, blah, blah ...
146
           <h2>
147
               <span class="date">9/6/2009</span>
148
               Disneyland Half Marathon
               <span class="time">3:43:05</span>
150
               (<a href="#event-map" onclick="recenter(map, eventPlaces[5].point, 12)">map</a>)
151
           </h2>
152
           blah, blah, blah ...
153
154
           <h2>
155
               <span class="date">1/11/2009</span>
               Disney World Marathon
157
               <span class="time">6:57:42</span>
158
               (<a href="#event-map" onclick="recenter(map, eventPlaces[4].point, 10)">map</a>)
159
           </h2>
           blah, blah, blah ...
161
162
           <h2>
163
               <span class="date">10/19/2008</span>
               Duke City Half Marathon
165
               <span class="time">3:09:42</span>
166
               (<a href="#event-map" onclick="recenter(map, eventPlaces[0].point, 11)">map</a>)
167
           </h2>
168
           blah, blah, blah ...
169
170
           <h2>
               <span class="date">6/21/2008</span>
172
               Animas Valley/Steamworks Half Marathon
173
               <span class="time">3:14:52</span>
174
               (<a href="#event-map" onclick="recenter(map, eventPlaces[1].point, 10)">map</a>)
176
           blah, blah, blah ...
178
       </body>
179
180
    </html>
```

http://karlbenedict.com/GEOG485-585/lectures/examples/tnt/index.html

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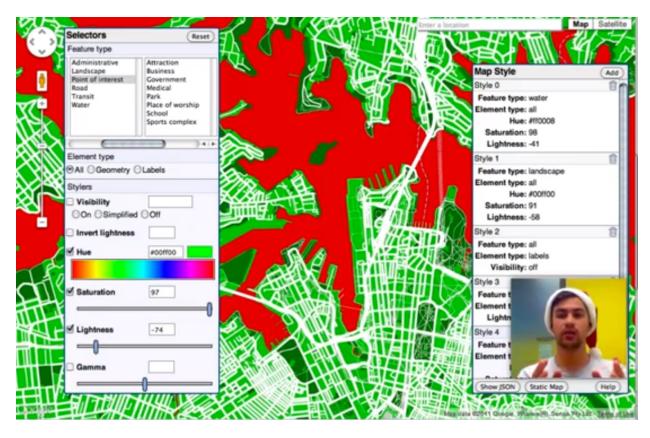


Figure 1: Google Maps Styled Maps Wizard link

# Managing and Visualizing your Geospatial Data with Fusion Tables

Kathryn Hurley, James McGill Guest Speaker: Simon Rogers, Guardian Datablog May 10, 2011



Figure 2: Google Fusion Tables Introduction Video link