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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

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <style type="text/css">
5   html { height: 100% }
6   body { height: 100%;
7         margin: 0px;
8         padding: 0px;
9         background-color: black;
10        color: #CCCCCC;
11        text-align: center}
12 #map_canvas { width:90%;
13               height:80%;
14               margin-left:
15               auto;
16               margin-right: auto }
17 </style>
18 <script type="text/javascript"
19       src="http://maps.google.com/maps/api/js?v=3.2&sensor=false">
```

```

20 </script>
21 <script type="text/javascript">
22     function initialize() {
23         var classroom = new google.maps.LatLng(35.084280,-106.624073)
24         var myOptions = {
25             zoom: 8,
26             center: classroom,
27             mapTypeId: google.maps.MapTypeId.ROADMAP,
28             styles: [
29                 {
30                     featureType: "water",
31                     stylers: [
32                         { visibility: "on" },
33                         { hue: "#0008ff" }
34                     ]
35                 },{
36                     featureType: "road.highway",
37                     stylers: [
38                         { hue: "#ff1a00" }
39                     ]
40                 },{
41                     featureType: "road.arterial",
42                     stylers: [
43                         { hue: "#ffa200" },
44                         { visibility: "simplified" }
45                     ]
46                 },{
47                     featureType: "road.local",
48                     stylers: [
49                         { visibility: "off" }
50                     ]
51                 },{
52                     featureType: "administrative",
53                     stylers: [
54                         { visibility: "simplified" }
55                     ]
56                 },{
57                     featureType: "poi",
58                     stylers: [
59                         { visibility: "on" },
60                         { hue: "#00ffff" }
61                     ]
62                 },{
63                     featureType: "poi",
64                     stylers: [
65                         { visibility: "on" }
66                     ]
67                 }
68             ]
69         };
70         var map = new google.maps.Map(document.getElementById("map_canvas"),
71             myOptions);
72     }
73 </script>

```

```

74 </head>
75
76 <body onload="initialize()">
77   <h1>Sample Map - Styled (POIs Emphasized)</h1>
78   <div id="map_canvas"></div>
79 </body>
80
81 </html>

```

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

```

1 <!DOCTYPE html>
2
3 <html>
4   <head>
5     <meta charset="utf-8" />
6     <title>Karl's Event Diary</title>
7     <link rel="stylesheet" href="./styles/base.css" media="screen">
8     <script type="text/javascript" src="http://maps.google.com/maps/api/js?sensor=false"></script>
9     <script type="text/javascript" src="./js/base.js"></script>
10    <script type="text/javascript">
11      // Define a set of global coordinates for use throughout the web site
12      // Place coordinates derived from GNIS database: http://geonames.usgs.gov/pls/gnispublic
13      var eventPlaces = [
14        {
15          name: "Albuquerque",
16          point: new google.maps.LatLng(35.0889356,-106.5747462),
17          label: "Albuquerque: Duke City Half Marathon"
18        },
19        {
20          name: "Durango",
21          point: new google.maps.LatLng(37.2752800,-107.8800667),
22          label: "Durango: Animas Valley/Steamworks Half Marathon"
23        },
24        {
25          name: "San Diego",
26          point: new google.maps.LatLng(32.7153292,-117.1572551),
27          label: "San Diego: San Diego Rock 'n' Roll Marathon"
28        },
29        {
30          name: "San Francisco",

```

```

31         point: new google.maps.LatLng(37.7749295,-122.4194155),
32         label: "San Francisco: Nike Women's Marathon"
33     },
34     {
35         name: "Orlando",
36         point: new google.maps.LatLng(28.5383355,-81.3792365),
37         label: "Orlando: Walt Disney World half- and full-marathon"
38     },
39     {
40         name: "Anaheim",
41         point: new google.maps.LatLng(33.8352932,-117.9145036),
42         label: "Anaheim: Disneyland Half Marathon"
43     }
44 ]
45 </script>
46 </head>
47
48 <body onload="initialize()">
49     <h1>
50         My diary of endurance events that I've participated in since joining Team in Training
51     </h1>
52
53     <p>In 2008 Cynthia and I joined the Leukemia and Lymphoma Society's (<a href="http://www.lls.org">http://www.lls.org</a>)
54     participants to train for the Animas Valley/Steamworks Half Marathon and raise money for blood cancer
55     research and patient services. In spite of our not having any direct connection to blood cancer
56     we found the goals of LLS admirable, the combined training and fund-raising program of TNT a great
57     new friends over the many seasons that we've been involved with TNT.</p>
58
59     <p>Since 2008 we have continued to volunteer with TNT, as participants, mentors, and since 2010
60     (check out my <a href="http://youtu.be/GMSKG8L6K78#t=2m13s">half-second</a> of fame in the info
61     for TNT with an emphasis on training walkers for full- or half-marathons. This page provides a
62     events that I've participated in in some capacity since we became involved with TNT. </p>
63
64     <div id="event-map" name="event-map"></div>
65
66
67     <h2>
68         <span class="date">9/1/2013</span>
69         Disneyland Half Marathon
70         <span class="time">2:56:57</span>
71         (<a href="#event-map" onclick="recenter(map, eventPlaces[5].point, 12)">approx. map</a>)
72     </h2>
73     <p class="eventDescription">blah, blah, blah ...</p>
74
75     <h2>
76         <span class="date">1/13/2013</span>
77         Disney World Marathon (Goofy - Day 2)
78         <span class="time">6:46:57</span>
79         (<a href="#event-map" onclick="recenter(map, eventPlaces[4].point, 10)">approx. map</a>)
80     </h2>
81     <p class="eventDescription">blah, blah, blah ...</p>
82
83     <h2>
84         <span class="date">1/12/2013</span>

```

```

85         Disney World Half Marathon (Goofy - Day 1)
86         <span class="time">3:22:48</span>
87         (<a href="#event-map" onclick="recenter(map, eventPlaces[4].point, 10)">approx. map</a>)
88     </h2>
89     <p class="eventDescription">blah, blah, blah ...</p>
90
91     <h2>
92         <span class="date">9/29/2012</span>
93         Hot Chocolate 15k
94         <span class="time">1:56:46</span>
95         (no map available)
96     </h2>
97     <p class="eventDescription">blah, blah, blah ...</p>
98
99     <h2>
100         <span class="date">6/9/2012</span>
101         Animas Valley/Steamworks Half Marathon
102         <span class="time">no time: coached</span>
103         (<a href="#event-map" onclick="recenter(map, eventPlaces[1].point, 10)">map</a>)
104     </h2>
105     <p class="eventDescription">blah, blah, blah ...</p>
106
107     <h2>
108         <span class="date">1/9/2012</span>
109         Disney World Marathon (Goofy - Day 2)
110         <span class="time">6:56:28</span>
111         (<a href="#event-map" onclick="recenter(map, eventPlaces[4].point, 10)">map</a>)
112     </h2>
113     <p class="eventDescription">blah, blah, blah ...</p>
114
115     <h2>
116         <span class="date">1/8/2011</span>
117         Disney World Half Marathon (Goofy - Day 1)
118         <span class="time">3:29:00</span>
119         (<a href="#event-map" onclick="recenter(map, eventPlaces[4].point, 10)">map</a>)
120     </h2>
121     <p class="eventDescription">blah, blah, blah ...</p>
122
123     <h2>
124         <span class="date">6/19/2010</span>
125         Animas Valley/Steamworks Half Marathon
126         <span class="time">no time: coached</span>
127         (<a href="#event-map" onclick="recenter(map, eventPlaces[1].point, 10)">map</a>)
128     </h2>
129     <p class="eventDescription">blah, blah, blah ...</p>
130
131     <h2>
132         <span class="date">6/6/2010</span>
133         San Diego Rock 'n' Roll Marathon
134         <span class="time">no time: coached</span>
135         (<a href="#event-map" onclick="recenter(map, eventPlaces[2].point, 11)">map</a>)
136     </h2>
137     <p class="eventDescription">blah, blah, blah ...</p>
138

```

```

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

```

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

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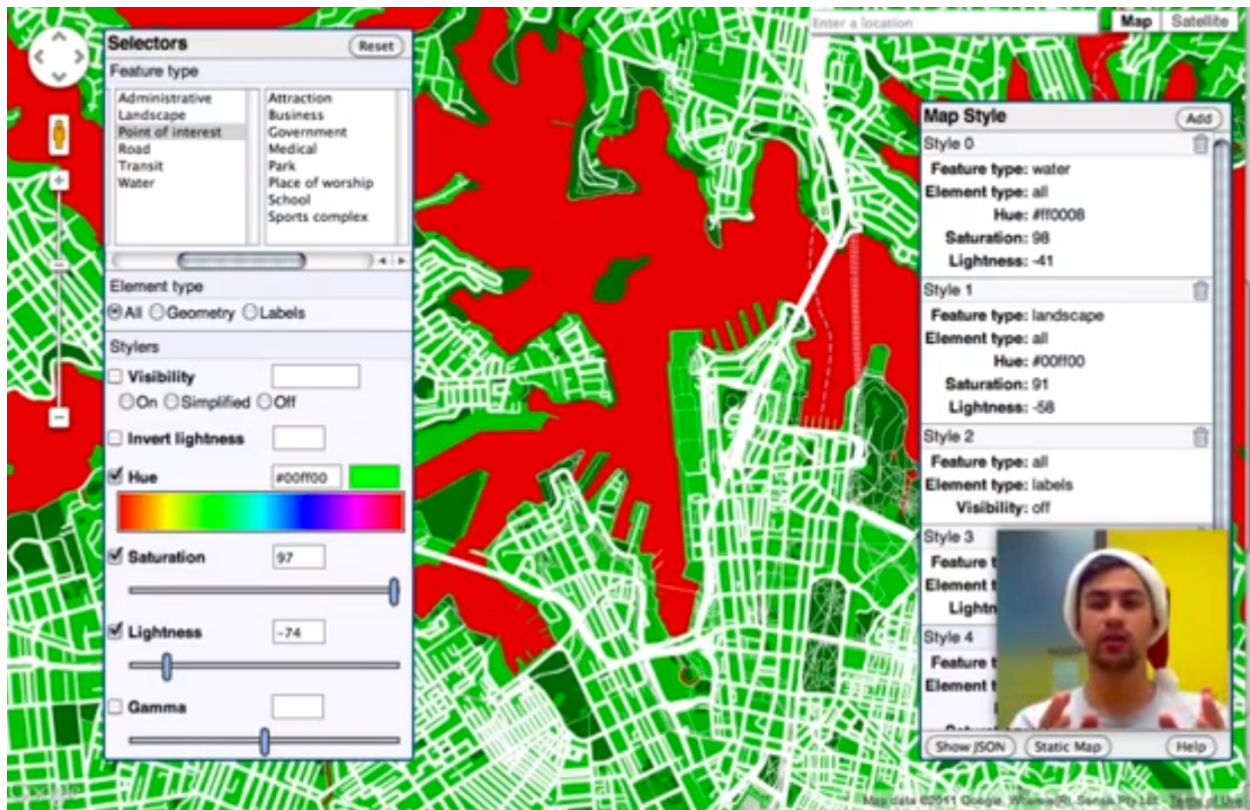


Figure 1: Google Maps Styled Maps Wizard [link](#)

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](#)