

# Week 4 - Module 2a - Web-based Mapping Clients. Google Maps API

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## Introduction

This week covers some additional topics related to the Google Maps API, particularly focusing on styling the Maps base maps using the [Create Map Style wizard](#) and integrating the javascript generated by the wizard into the base web page code developed last week; and, using [Google's Fusion Tables](#) tool to create and manage tabular data for mapping and other visualization. We complete our work with the Maps API with an example of a more “real” example of a maps-enabled web page.

### *Expected Outcomes*

By the end of this class module you should be able to:

- Generate a Google Maps JSON style using the *Create Map Style Wizard*
- Integrate that JSON into your map client page for styled basemap display

You should also understand

- The potential of *Fusion Tables* as an alternative source of data to integrate into a custom Google Map page
- The potential structure of an *operational* web page, including the physical separation of page components (structure, presentation, behavior) into separate files

### *Key Concepts*

- Generating Google Maps styles
- Integrating styles into a Google Maps page
- Fusion tables as a data source for Google Maps maps
- Separation of structure, presentation, and behavior in web development

## Class Prep

- [Lynda.com tutorials](#)
  - *Javascript for Web Designers* (continued)
    - \* 5. Using the Google Maps API

## Reference Materials

- Duckett, Jon, and Larsen, Rob. *Beginning HTML and CSS*. Somerset, NJ, USA: John Wiley & Sons, 2013. ProQuest ebrary. Web. 28 December 2015. This book is available online through the [University Library](#) - Chapters 2,3,4 and 8
- [Google Maps API Tutorial](#)
- [Google Maps Styling Reference](#)
- [Google Maps Fusion Mapper](#)

## Weekly Milestone - Styling of an Embedded Google Map

Make a free-standing web page based upon the Google Map that you created as part of last week's milestone. Use the Google [Create Map Style wizard](#) to define *at least* three modified base map styles and integrate the JSON generated by the wizard into your new Google Map page.

## Deep Dive - Creation of a a Google Maps Web Page with Custom Points and Labels

In your milestone for this week you built a styled Google Maps base map for a particular region of interest. For this *deep dive* assignment create a new free-standing web page that includes a brief description of the topical focus of your mapper:

- The type of information that you want to depict in your map
- Your reasons for selecting the specific area shown in the map
- A description of what you are trying to communicate with the map

Embed the base map that you initially created for your milestone into this new web page.

- Add 5 overlay objects to the map that relate to specific items of interest or importance. These overlay objects may be *markers*, *polylines*, or *polygons*. Make sure to include descriptive titles for each object.
- Add an *infobox* to each object that contains additional detailed information about the object

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