The Geolocation API: Using Maps and Location in Your Web Pages

Introduction

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Audience Assumptions

- Know the basics of HTML, CSS and JavaScript
- Know how to use the browser console to test your code
- No prior HTML5 experience needed
- No prior mapping, GIS, or location services experience needed

Getting Set Up

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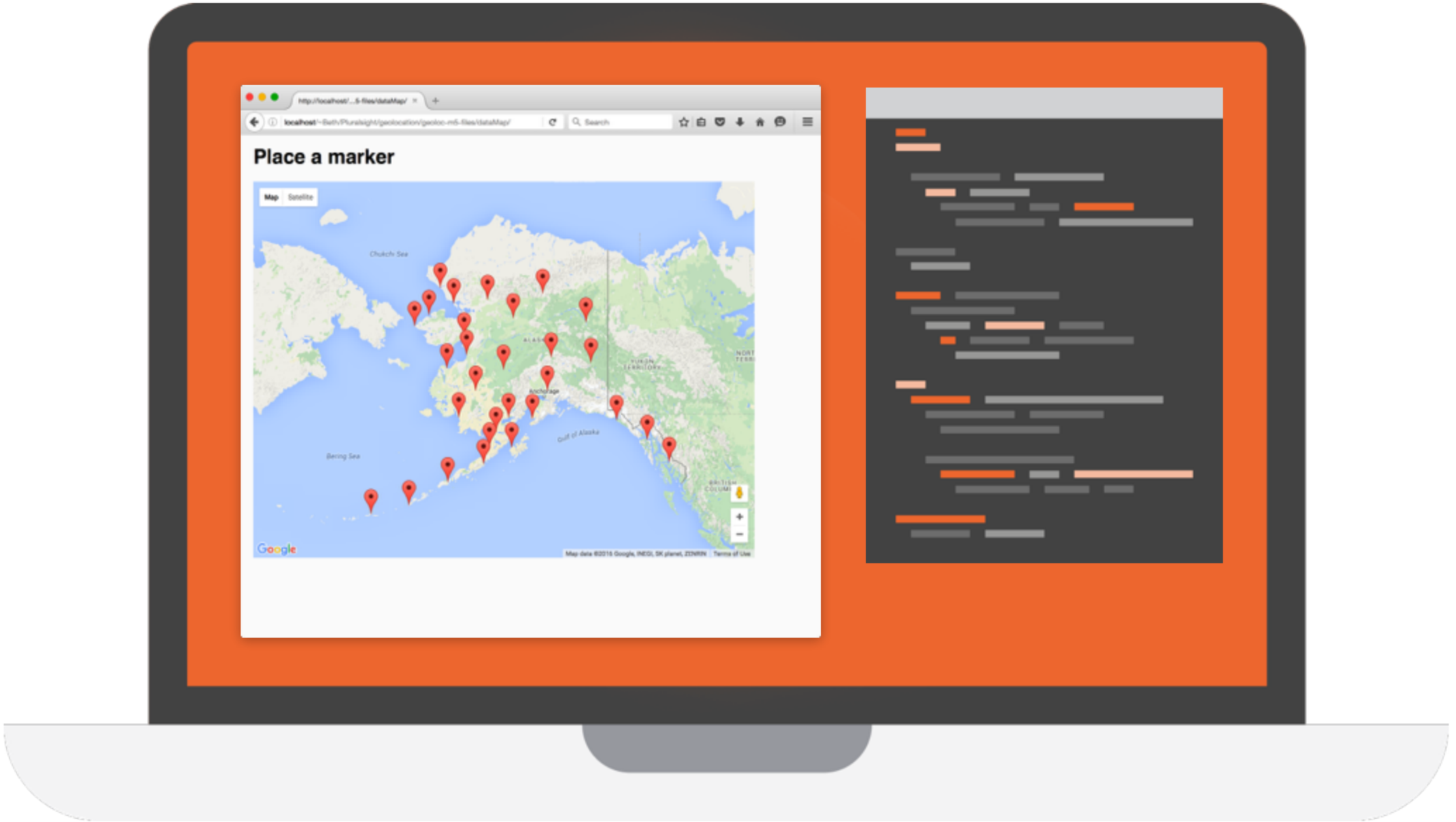
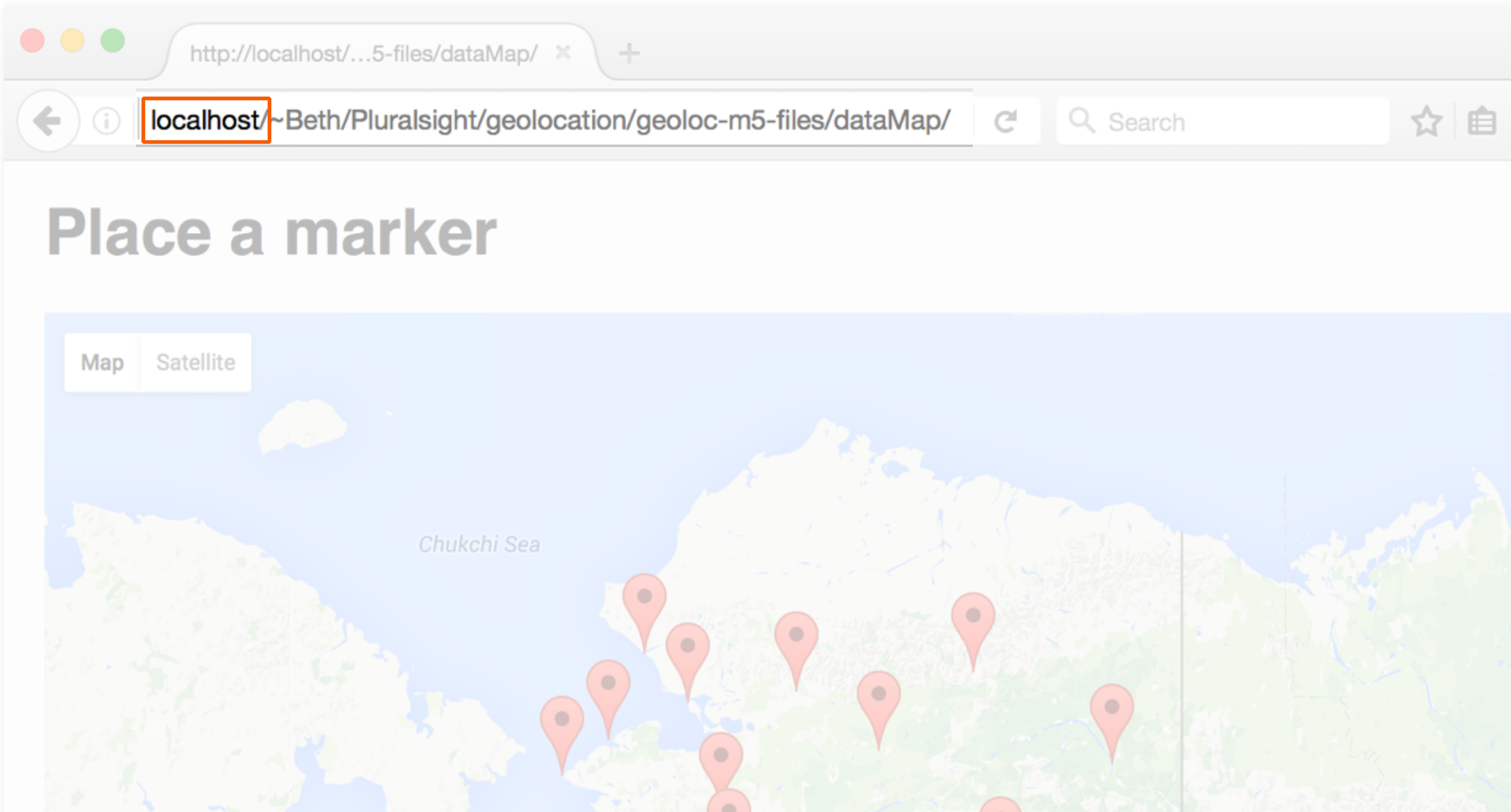
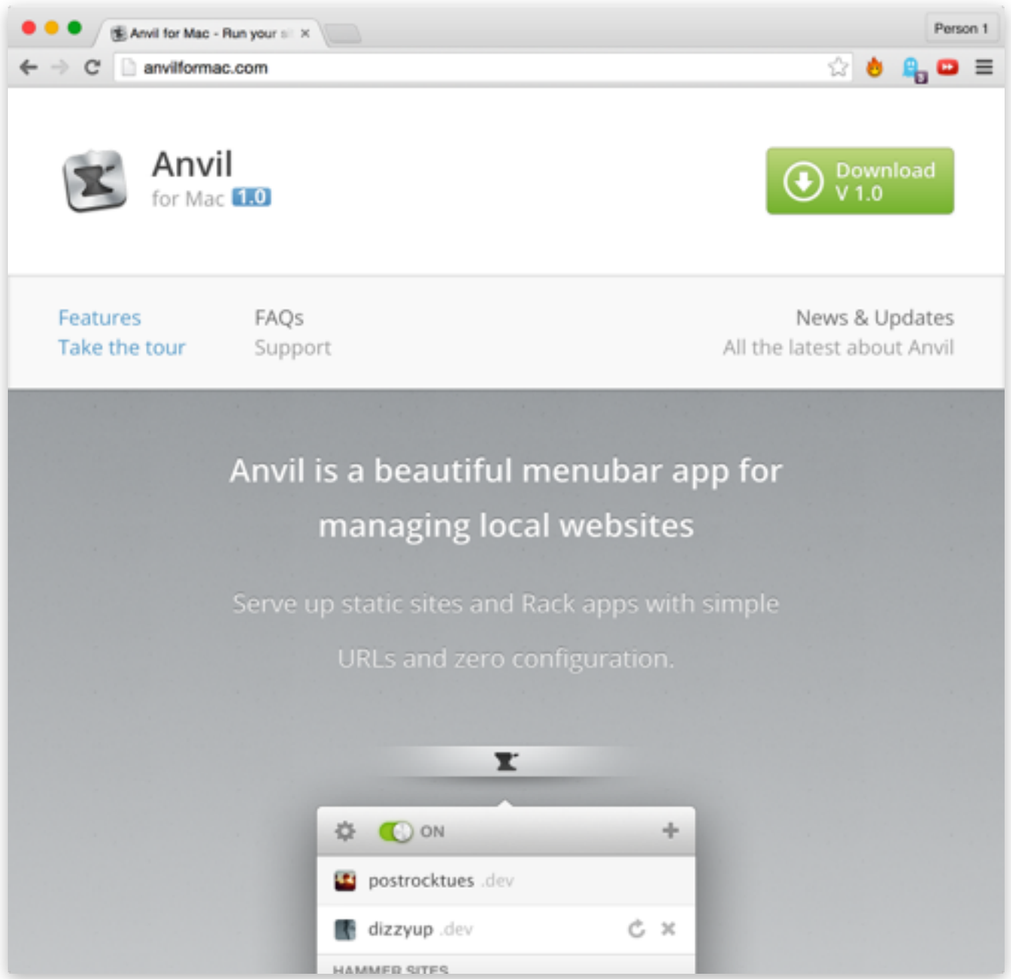
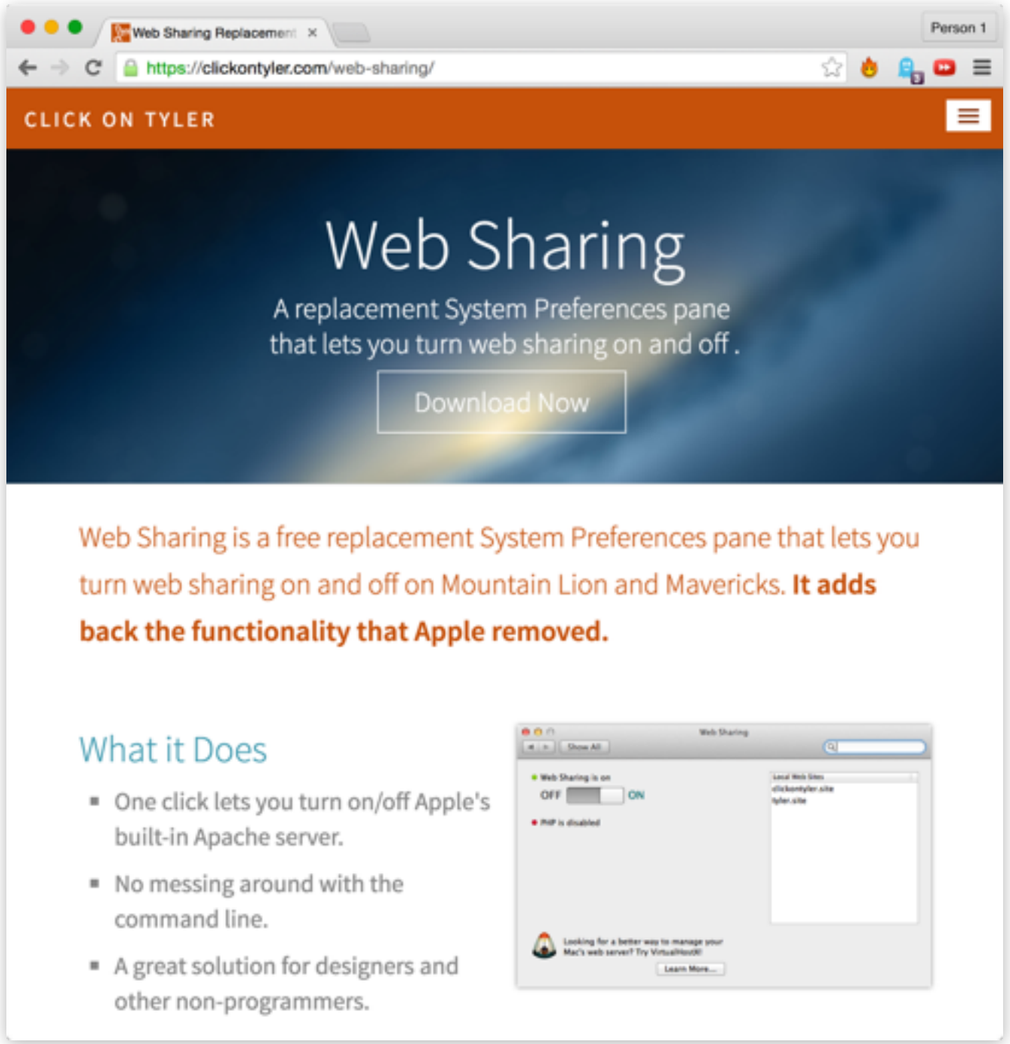

Place a marker
Map
Satellite
Chukchi Sea
Anchorage
Gulf of Alaska
Bering Sea
Google

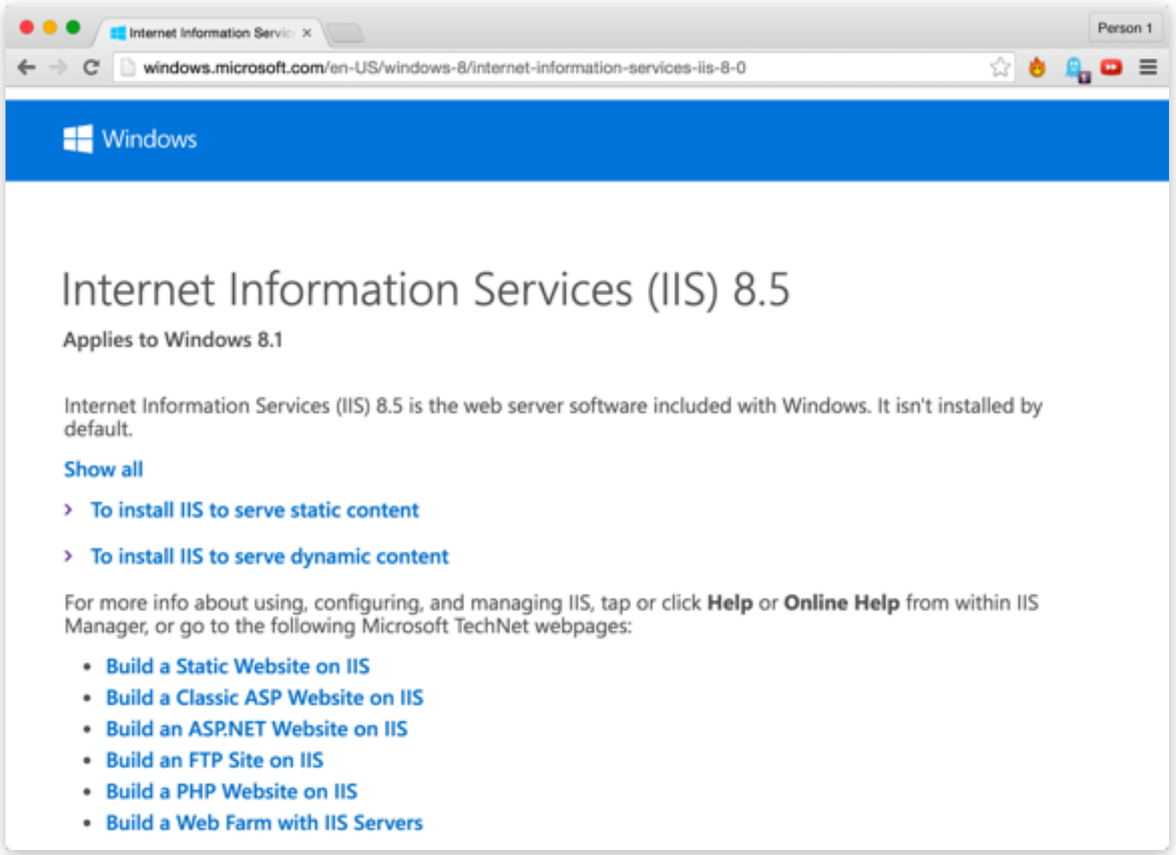

http://localhost/…5-files/dataMap/
localhost/~Beth/Pluralsight/geolocation/geoloc-m5-files/dataMap/
Search
Place a marker
Map
Satellite
Chukchi Sea

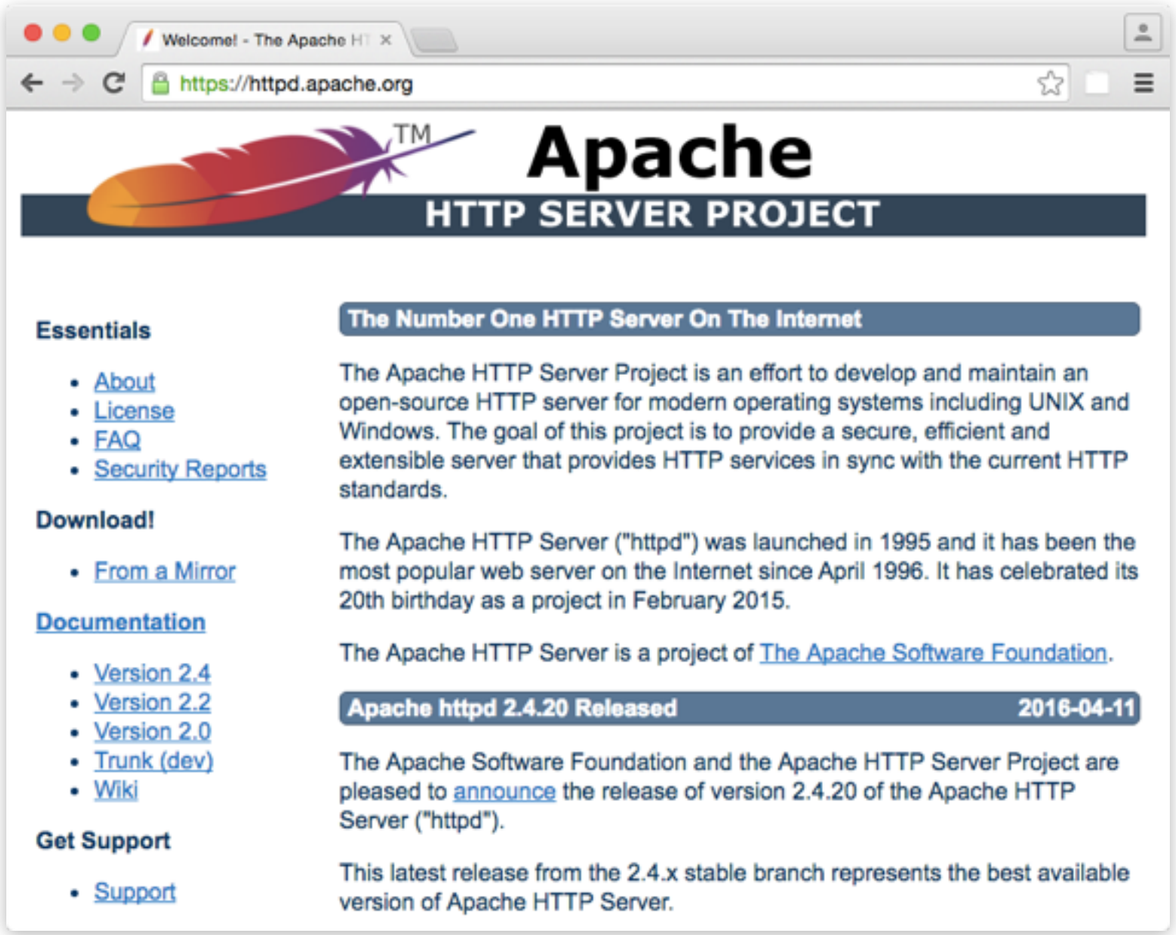
Running a Web Server on Mac OS X



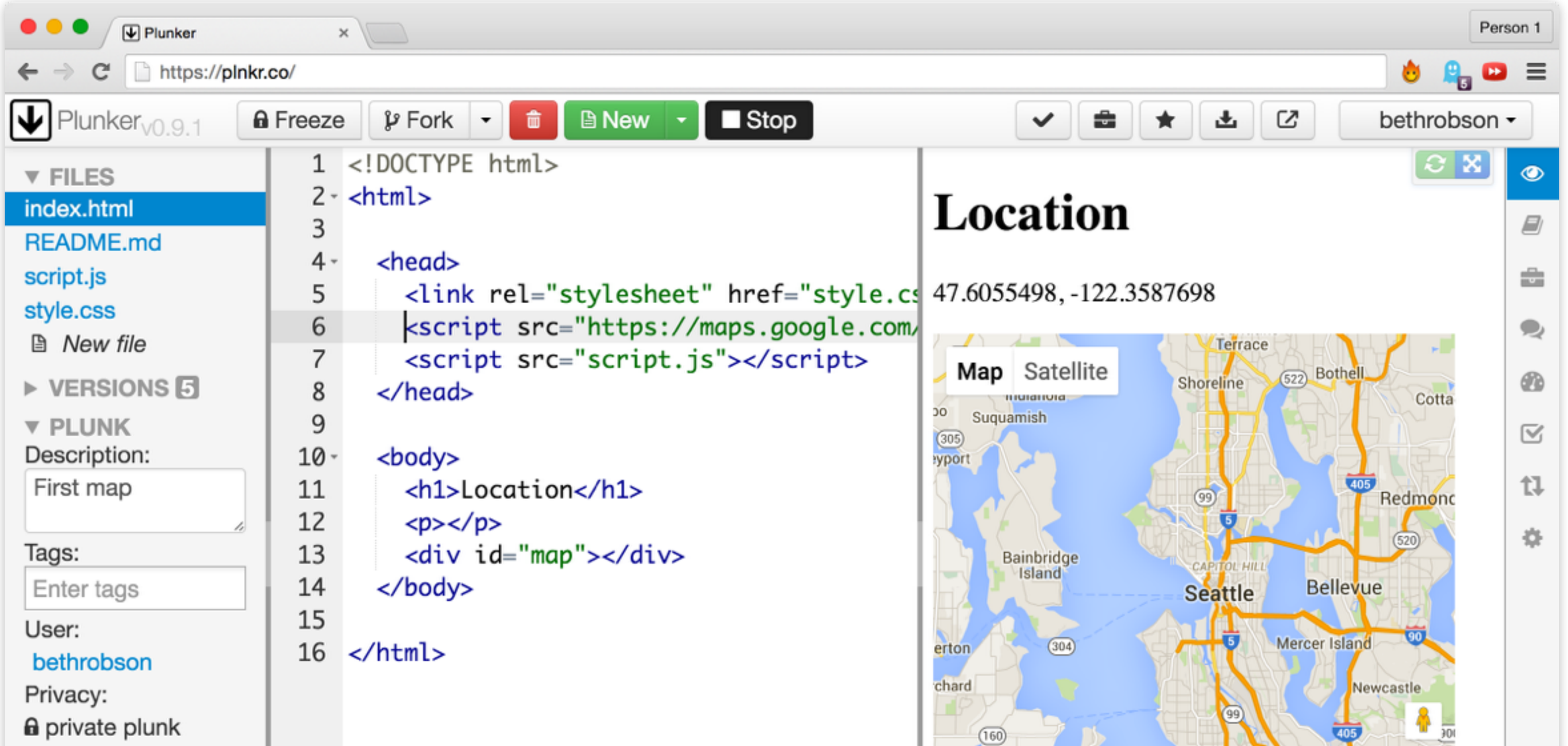


Running a Web Server on Windows



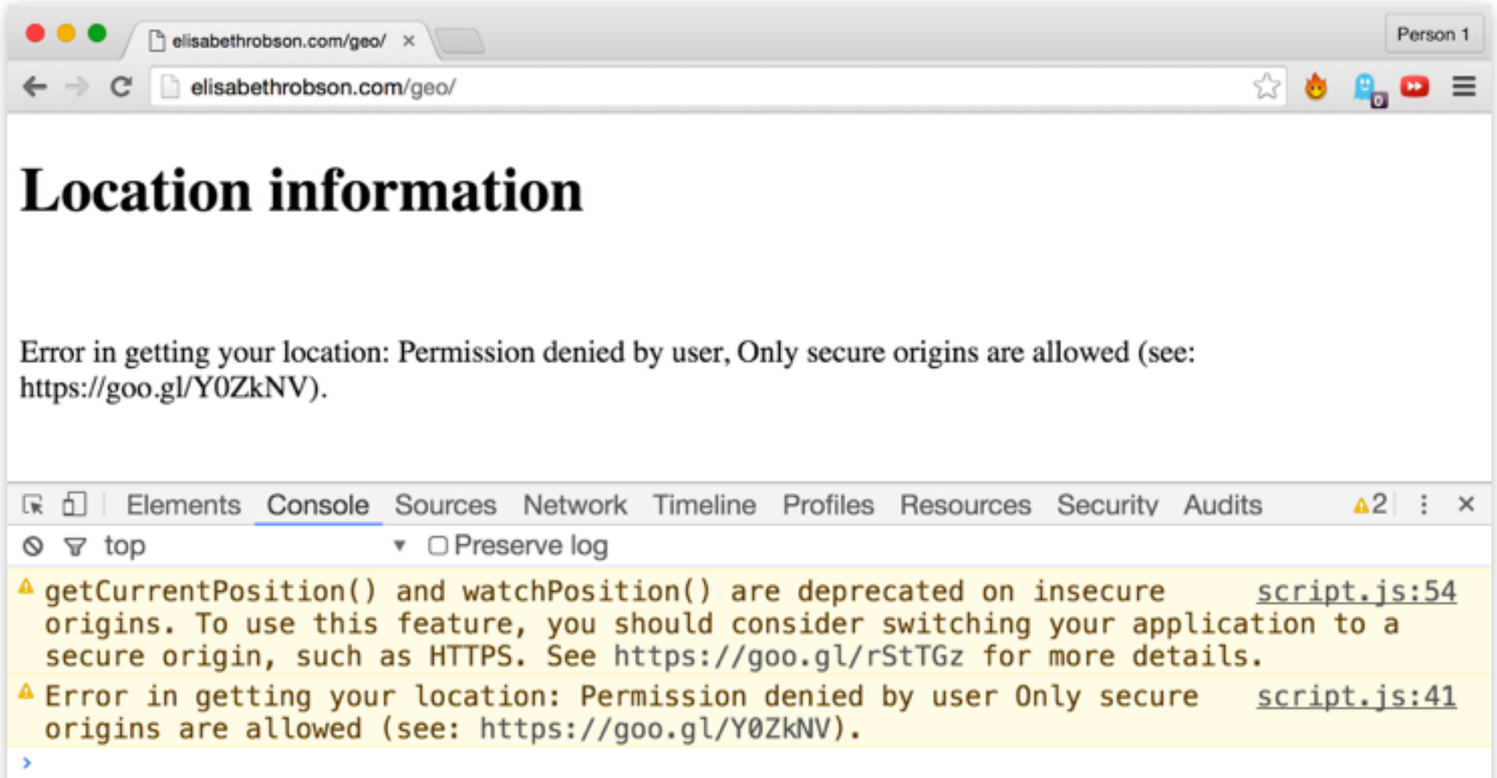


Plunker


Plunker
Person 1
https://plnkr.co/
Plunker v0.9.1
Freeze
Fork
New
Stop
bethrobson
FILES
index.html
README.md
script.js
style.css
New file
VERSIONS 5
PLUNK
Description:
First map
Tags:
Enter tags
User:
bethrobson
Privacy:
private plunk
1 <!DOCTYPE html>
2 <html>
3
4 <head>
5 <link rel="stylesheet" href="style.cs
6 <script src="https://maps.google.com/
7 <script src="script.js"></script>
8 </head>
9
10 <body>
11 <h1>Location</h1>
12
13
14 </body>
15
16 </html>
Location
47.6055498, -122.3587698
Map
Satellite
Terrace
Shoreline
Bothell
Suquamish
Redmond
Bainbridge Island
Seattle
Bellevue
Mercer Island
Newcastle

Your Own Web Site

- Create a folder for course files
- Watch out for insecure origin errors in Chrome
  - Get an SSL certificate installed on your web site host



Testing

JavaScript Web APIs

- All modern browsers have JavaScript built-in
- JavaScript is standardized
- API: Application Programming Interface
- Standardized APIs include Geolocation, Web Storage, Video and Audio, canvas, the DOM, SVG, and more
- Libraries, like jQuery, Backbone, Angular, and hundreds of others each offer their own APIs.
  - Google Maps Library allows you to add Maps to your page
  - Provides APIs for Maps, Markers, Places, and much more