Developing Mobile Websites

In this 2-day Developing Mobile Websites class, you will learn to use HTML5, CSS, JavaScript, and other tools to create websites that are responsive: sites that adapt their layout to the client device being used, whether it be a smartphone, tablet computer, or desktop computer/laptop. You will learn to use CSS media queries, mobile-friendly HTML5 features, JavaScript enhancements, and various frameworks to build websites that look as good on an iPhone or Android as they do on a desktop or laptop computer.

Course Objectives:

- Learn how one website can respond to the specific needs of the environment on which it is being viewed, presenting a layout that is equally - and differently - appropriate for mobile, table, and desktop devices.
- Learn to leverage the capabilities of HTML5 to present mobile-friendly sites, and understand the varying levels of support for some features among different devices.
- Understand how to use CSS Media Queries to display content modified to fit the client device.
- Understand the GeoLocation API and use it to integrate the user's location into websites.
- Integrate video and other media appropriately for mobile devices.
- Learn how to use the jQuery Mobile framework to add support for touch and other gestures.
- Learn how to use the Foundation framework to abstract low-level responsive coding and to create grid-based layouts.

Audience: Decision makers in digital marketing, sales, Web and IT management.

Prerequisites: Experience in HTML 4, basic CSS and basic JavaScript. It would be beneficial to know HTML5, CSS3 and jQuery and other more advanced JavaScript topics.

Number of Days: 2 days

1 Designing for Mobile
- Responsive Design: Good for All Devices
- Why It's Worth It?
- Building Responsive Sites

2 Flexible Grids
- The Flexible Grid: A More Responsive Layout Strategy
- Case Study: The Jazz Calendar Site
- A First Complete Jazz Calendar Draft
- Making the Inflexible Flexible
- A Better Jazz Calendar

3 Flexible Images and other Media
- Improving the Jazz Calendar Site
- Exercises
- Flexible Background Images

4 The Viewport & Media Queries
- The Viewport
- Targeting Widths and Devices with CSS3 Media Queries
- Linearizing the Layout
- Using max-device-width

5 HTML5: Mobile Specific
- Forms
- A Jazz Calendar Registration Form
- Local Storage

6 GeoLocation API
- How it Works
- Browser and Device Support
- JavaScript Implementation
- Google Maps
- Jazz Calendar: Finding Nearby Gigs

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7 Home Screen Icons
iPhone/iPad
A Home Screen icon for the Jazz Calendar Site: iOS
Apple-Specific JSON Manifest
A Home Screen Icon for the Jazz Calendar Site: Android
8 Accelerometer
Using the Accelerometer
9 Video
Optimizing the Video Experience for Mobile
Embedding from YouTube or Vimeo
Hosting Your Own Videos
Video Formats
Controlling the Video through JavaScript
Converting Video Formats
Further Reading
10 jQuery Mobile
Mobile Focus
Supported Platforms
The Basics
The Page Model
UI Elements
Drag-and-Drop Code Builder
Gestures
Swiping to Change Pages
Using data Attributes
Handling Orientation Change
What About Desktops?
11 Mobile Menus
Mobile Menus
Slicknav: A Mobile Menu jQuery Plugin
12 The Bootstrap Framework
Bootstrap: A Responsive Framework
Downloading Bootstrap
Bootstrap's Grid
Bootstrap Components
A Bootstrap Layout for Jazz Calendar