



Responsive Design and Bootstrap

Course ISI-1462B - Five days - Instructor-led

Introduction

Students attending this five day instructor-led course will first learn how to build websites with a “responsive and mobile first” methodology from scratch. We will take what we learn and venture into an exciting CSS framework called Bootstrap. We will see how Bootstrap works in the realm of a responsive design and identify other features available that create beautiful, well structured, content pages.

Students will learn how to build websites with a “responsive and mobile first” methodology, allowing a website to display effortlessly on every device that accesses it. Learn all the most up-to-date techniques and tools needed to build great responsive designs, ensuring that your projects won't just be built “right” for today, but in the future too

Students will learn the power of Web Development using the very popular Bootstrap framework. You will learn how to use the internal techniques used in developing rich, responsive web content that can be used on any desktop browser or mobile device

At Course Completion

After completing this course, students will be able to:

- Learn and explore how to harness the latest features of HTML5 in the context of responsive web design
- Learn to wield the new Flexbox layout mechanism, code responsive images, and understand how to implement SVGs in a responsive project
- Make your pages interactive by using CSS animations, transformations, and transitions
- Understand the internal architecture and structure of Bootstrap
- Download and configure Bootstrap in your web project
- Get to grips with the usage of Bootstrap CSS and its components
- Build and compile Bootstrap from source code
- Work with the JavaScript objects offered by Bootstrap and the CSS pre-processors
- Customize and extend Bootstrap to suit your requirements

Prerequisites

This course assumes the students have the following experience or courses:

- 3 Months developing with HTML5 and CSS3 or ISInc Course ISI-1372
- 3 Months developing with JavaScript or ISInc Course ISI-1337
- 3 Months developing with JQuery or ISInc Course ISI-1295

Student Materials

Contact ISInc for more information at 916.920.1700 or by visiting our website at <http://www.isinc.com>



Each student receives a printed copy of all the material presented by the instructor.

Course Outline

Responsive Design

- Learning to work responsively
- Meet the responsive web
- What is the responsive web?
- Key features
- Building your first responsive site
- The basic responsive layout
- Fluid layouts via percentages
- How percentages work in CSS
- Box sizing
- Fluid grid systems
- Building a fluid layout
- Making the element responsive
- Expanding into the wider views

JavaScript and Responsive Design

- Graceful degradation
- What is Modernizr?
- Installing Modernizr
- Using Modernizr for cross-browser CSS
- JavaScript feature detection with Modernizr
- Detecting touch support
- Using Modernizr.load and yepnope
- Creating custom Modernizr tests
- Adding Modernizr to our site

Bootstrap

- Why use Bootstrap
- Installing Bootstrap
- Mobile First Approach
- Using JavaScript and JQuery
- Working with Grids
- Using Tables
- Paging and Paggers
- Working with Images
- Using Wells and Panels
- Creating Buttons
- Working with Drop-Downs
- Using List-Groups
- Using NavBars
- Creating Tabs and Pills
- Bootstrap in popular environments
- Creating full navigation

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