Custom training : Advanced CSS (3 days)

Objectives

CSS (Cascading Style Sheets) is the language for setting the layout and the look of a website. This training provides the required skills to use the advanced features of CSS. The course targets developers who have an initial knowledge of HTML5 and CSS. The participants will have an in depth of CSS3 advanced features and will implement them through many hands-on labs. The course introduces, in its last section, to Twitter Bootstrap 4 framework. The participants will have the opportunity to understand and to practice the CSS3 concepts that are behind this framework.

Prequisites

Participants should be familiar with HTML and CSS 2/3 Concepts.

Program

I.   Review of the HTML5 Ecosystem

-       Creating HTML Pages

-       Styling content with CSS

-       Adding logic with JavaScript

-       Overview of HTML5 and CSS3 new features

Hands-on Lab: Implementation of HTML 5 layout concepts and basic CSS Styling.

II.   Styling HTML5 with CSS3

-       CSS3 selectors

-       Styling Text by Using CSS3

-       Styling Block Elements

-       Pseudo-Classes and Pseudo-Elements

-       Enhancing Graphical Effects by Using CSS3

Hands-on Lab: Guided exercises to use CSS3 to style the navigation Bar component of an HTML application

III.   Implementing an Adaptive User Interface

-       Supporting Multiple Form Factors

-       The Mobile First Concept

- Flexible Grids
- Creating an Adaptive User Interface

Hands-on Lab: Guided exercises for creating a Print-Friendly Style Sheet and adapting Page Layout to fit different form factors

IV. Animating the User Interface

- Applying CSS Transitions
- Transforming Elements
- Applying CSS Keyframe Animations

Hands-on Lab: Guided exercises for applying CSS Transitions and keyframe Animations

V. Pre-processing CSS with SASS

- Benefits of CSS pre-processing
- SASS vs. LESS
- SASS Syntax : variables, nesting, modules, mixins
- Development of custom themes

Hands-on Lab: Guided exercises for the development of a custom theme

VI. Using the Twitter Bootstrap 4 Framework

- Understanding the Grid system of Bootstrap
- Defining the Layout with Bootstrap
- Using Bootrap 4 standard themes
- Styling Navigation bars, Forms and Tables
- Styling Navigation Links and Buttons
- Customizing Boostrap using SASS

Hands-on Lab: Guided exercises for using Bootstrap 4 to style a web application.