

## Course duration

- 3 days

## Course Benefits

- Learn to install Bootstrap and Sass.
- Learn to use Bootstrap for Typography.
- Learn to create responsive forms with Bootstrap.
- Learn to work with images in Bootstrap.
- Learn about Bootstrap's helper utilities.
- Learn about Bootstrap's components for creating modern web user interfaces.
- Learn to use Bootstrap's JavaScript plugins for making sites interactive.
- Learn to customize Bootstrap.
- Learn to write SassScript to simplify and speed CSS development.
- Learn to create functions in Sass.
- Learn to use Sass together with Bootstrap.
- Learn the best practices for managing Sass and Bootstrap code.
- Learn to create Sass Mixins.
- Learn how to test Sass code.
- Learn how to deploy and maintain Sass and Bootstrap code in a professional environment.

## Course Outline

1. Bootstrap Basics
  1. Global Styles
  2. Grid System
2. Bootstrap Typography
  1. Globals and Blocks
  2. Inline Elements
  3. Alignment
  4. Lists
  5. Tables
3. Bootstrap Forms
  1. Inline Forms
  2. Horizontal Forms
  3. Input Types
  4. Buttons
4. Images, Helper Classes, Utilities
  1. Images
  2. Other Helper Classes

- 3. Responsive Utilities
- 5. Bootstrap Components
  - 1. Glyphicons
  - 2. Drop-down Menus
  - 3. Navigation Elements
  - 4. Breadcrumbs
  - 5. Pagination
  - 6. Labels
  - 7. Badges
  - 8. Jumbotron
  - 9. Page Header
  - 10. Thumbnails
  - 11. Alerts
  - 12. Progress Bars
  - 13. Media Objects
  - 14. List Group
  - 15. Panels
  - 16. Responsive Embed
  - 17. Wells
- 6. Bootstrap JavaScript Plugins
  - 1. Events
  - 2. Modals
  - 3. Dropdown
  - 4. Scrollspy
  - 5. Tabs
  - 6. Popover
  - 7. Alerts
  - 8. Buttons
  - 9. Collapse
  - 10. Carousel
  - 11. Affix
- 7. Advanced Topics
  - 1. Customizing Bootstrap
  - 2. Introduction to Bootstrap
- 8. Introduction to CSS Preprocessing
  - 1. What's wrong with CSS?
  - 2. What is a CSS Preprocessor?
- 9. SASS Basics
  - 1. Installing and Configuring Sass
  - 2. Using Sass with Bootstrap
  - 3. Sass vs. SCSS Syntax
  - 4. Output Styles
- 10. Organizing and Including Sass Code
  - 1. Partials
  - 2. Code Organization
- 11. SassScript
  - 1. Comments in Sass

- 2. SassScript Data Types
- 3. Using Variables in Sass
- 12. Operations in Sass
  - 1. Numeric Operations
  - 2. Color Operations
  - 3. String Operations
  - 4. Interpolation in Sass
  - 5. Boolean Operations
  - 6. List Operations
- 13. Control Directives and Expressions
  - 1. If() and &if
  - 2. &for
  - 3. each
  - 4. while
- 14. Functions in Sass
  - 1. Using Built-in Functions
  - 2. Define Your Own Functions
  - 3. &-Rules and Directives
  - 4. &import
  - 5. &media
  - 6. &extend8
  - 7. &debug, &warn, &error
- 15. Nesting
  - 1. The Inception Rule
  - 2. Namespaced Properties
- 16. Mixins
  - 1. Mixin Directives
  - 2. Arguments in Mixins
  - 3. Including Mixins
  - 4. Finding and Using Mixin Libraries
  - 5. Testing and Debugging Sass

## Class Materials

Each student will receive a comprehensive set of materials, including course notes and all the class examples.

### Class Prerequisites

Experience in the following *is required* for this Bootstrap class:

- CSS
- HTML
- Some familiarity with JavaScript

### Prerequisite Courses

Courses that can help you meet these prerequisites:

- [Introduction to HTML Training - old](#)
- [Introduction to CSS Training](#)
- [Advanced CSS Training](#)
- [Introduction to JavaScript Training](#)