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Bootstrap 5 training

3 days (21 hours)

Presentation

Our Bootstrap training course will teach you how to create web pages quickly, taking full advantage of the power of HTML and CSS. With Bootstrap 5, designing a mobile and responsive site is no longer an ordeal.

Thanks to its mobile-first approach, Bootstrap 5 offers cross-platform compatibility for the essential elements a website: navigation, grid, formscarousels, cards, buttons, accordions and tables.

Mastering this tool is a major advantage in speeding up website development.

During our bootstrap training course, we'll introduce you to the basics of this CSS framework, whether in terms of designing UI and UX elements or styles (typography, icons, popups and popovers).

After this course, you'll know how to quickly customize a site. We'll also teach you how to use JavaScript and JQuery to create dynamic animations.

Like all our training courses, our Bootstrap 5 course will introduce the latest version of the software, Bootstrap 5.3.

Objectives

- Introduce the different functionalities to help you master Bootstrap 5
- Be able to adapt Bootstrap 5 source code yourself
- Integrate your own design with Bootstrap
- Use it as a foundation for your websites

Target audience

Web Developer, Web Designer and Webmaster

Prerequisites

- HTML/CSS skills
- Test My Knowledge

Bootstrap 5 training program

Introduction

- What is a CSS framework?
- Evolving web technologies: HTML5 / CSS3 reminders
- Alternatives to Bootstrap
- Why use Bootstrap?
- Implementing Bootstrap in your project

Layout with the grid

Bootstrap 5 lets you quickly create complex layouts for both mobile and desktop devices, and we'll show you how to take advantage of the bootstrap grid to create web pages.

- Structuring and integration principles
  - Creating a responsive layout
- Review of responsive breakpoints (different screen sizes)
  - From pixel to root em (rem)
- Setting up the grid
  - Container, Row, Columns
- Using Flexbox with the Bootstrap grid

HTML and CSS content

- Titles and text layout
- Responsive images
- Tables and lists of elements

HTML and CSS components

Bootstrap 5 integrates numerous components, facilitating all parts of page :

- Navs and Navbars for navigation

- Breadcrumb
- Media objects
- Cards
- Listings
- Buttons, button groups and drop-down buttons
- Pagination
- Forms and Inputs
- Alerts
- A little decoration: badges, spinners
- Jumbotron
- Customized video and audio players
- Integrate customized CSS into your project

Using Bootstrap with JavaScript and jQuery

Bootstrap also features a number of components that take advantage of JavaScript to greater interactivity and flexibility through the use of custom scripts.

- Photo carousels, accordions
- Collapse elements
- Modals or modal boxes
- Popovers
- Progress or Progress bar
- Scrollspy
- Toast
- Tooltips
- Drop-down menus
- Tabulations

The magic of Utilities

Bootstrap 5 has integrated dozens of utility classes to speed up and simplify development.

- Utilities layout, flexbox , float, clearfix, position, visibility & display
- Utilities borders
- Utilities overflow
- Utilities colors
- Utilities shadow
- Utilities sizing & spacing
- Utilities texts
- Utilities alignment

The SASS pre-processor

SASS is the pre-processor used for bootstrap development. Knowing how to manipulate SASS files allows you to better understand and customize the framework.

- What is a pre-processor?
- Benefits of SASS
- SASS and Bootstrap 5

- Variables and mixins

Workshops & Integration

- Integration of a mock-up for a fully responsive site
- Introduction to WebPack
    - Using Bootstrap 5 with Angular
    - Using Bootstrap 5 with Symfony

Advanced Bootstrap (Module on request +2 days)

- Create a site with one of the templates
- Bootstrap API
- External plugins (Calendar, Clip-One...)
- Setting up bootstrap with npm and bower
- Integration of a mock-up for a fully responsive site
- Project deployment
- Create a page from a template by overloading the CSS file
- Using Bootstrap 5 with SASS (preprocessor) and Gulp (Taskrunner)
- Using SASS files and a Nodejs server
- Integration with Angular and React
- What's new in Bootstrap 5 and the future of the project: the end of jQuery
- Optimizing your website
    - CSS optimization
    - Inline styles
    - Long identifier and class names
    - Shorthand rules
    - Grouping selectors
    - Rendering times
    - Minifying CSS & JavaScript
    - JavaScript concatenation
    - Remove unused CSS and comments from our website
    - HTML processing
    - Resource deployment
    - Automate tasks
- Setting up the environment with Gulp
- Extends & placeholder, the differences
- Internal functions
- Compass & bourbon, frameworks for SASS

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning on entry to training complies with Qualiopi quality criteria. As soon as enrolment is finalized, the learner receives a self-assessment questionnaire enabling us to

assess their estimated level of proficiency in different types of technology, and their expectations and personal objectives for the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or internal security difficulties within the company (intra-company or virtual classroom) that could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Sanction

A certificate will be issued to each trainee who completes the course.