



Codes
With
Pankaj

Front-end Development

Build beautiful websites. HTML, CSS, JavaScript, Bootstrap !



9252667322



www.codeswithpankaj.com

Who Is This For?

- Anyone looking for a career in front-end development
- Anyone familiar with HTML/CSS who needs a refresher course to fill in the gaps
- Anyone wanting to build and maintain Wordpress websites
- Backend developers who want to become full-stack developers

No Prior Knowledge Needed

No prior knowledge of HTML or CSS is necessary to take this course. We'll start from the very beginning and cover all the basics, so you can build a solid foundation and progress at your own pace.

If you're new to web development or programming in general, don't worry! This Codes with Pankaj course is designed to be beginner-friendly, and you'll learn everything you need to know to get started with HTML and CSS.



Codes
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Unlock the world of coding

Mastering HTML Fundamentals

From Basics to Advanced Techniques

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Course Duration: 20 Hours

Module 1: Introduction to HTML (2 Hours)

- Overview of HTML
- HTML Editors
- Basic Structure of an HTML Document
- Common HTML Elements
- Attributes in HTML
- Document Headings and Paragraphs

Module 2: Styles and Formatting in HTML (2 Hours)

- CSS Introduction in HTML
- Applying Styles to HTML Elements
- Text Formatting in HTML
- Quotations and Comments in HTML
- Working with Colors in HTML

Module 3: Links, Images, and Icons (2 Hours)

- Creating Hyperlinks
- Embedding Images
- Favicons and Page Titles

Module 4: Tables and Lists (2 Hours)

- Working with Tables
- Creating Lists in HTML
- Understanding Block and Inline Elements
- Divisions in HTML

Module 5: Classes, IDs, and Iframes (2 Hours)

- Applying Classes and IDs
- Embedding Iframes
- Introduction to JavaScript in HTML

Module 6: HTML Forms (2 Hours)

- Creating HTML Forms
- Form Attributes
- Common Form Elements
- Input Types and Attributes

Module 7: Graphics with HTML (2 Hours)

- Introduction to HTML Canvas
- Scalable Vector Graphics (SVG)

Module 8: Media in HTML (2 Hours)

- Embedding Video in HTML
- Including Audio Files
- Working with Plug-ins
- Embedding YouTube Videos



Course Overview:

This course is designed to provide a comprehensive understanding of Cascading Style Sheets (CSS) for web development. The curriculum is structured into three main sections: CSS Fundamentals, CSS Advanced Techniques, and Responsive Web Design (RWD). Additionally, the course covers essential topics in CSS Grid, CSS SASS, and Sass Functions.

Course Duration: 28 Hours

Module 1: CSS Fundamentals (8 hours)

1.1 Introduction to CSS

- Understanding the role of CSS in web development
- Overview of styling and design concepts

1.2 CSS Syntax

- Basic structure of CSS rules
- Selectors, properties, and values

1.3 CSS Selectors

- Different types of selectors (tag, class, ID, attribute)
- Specificity and importance of selector choice

1.4 CSS How To

- Linking CSS to HTML
- Inline vs Internal vs External styles

1.5 CSS Comments

- Writing effective comments in CSS code

1.6 CSS Colors

- Color representation in CSS
- Various color formats and their usage

1.7 CSS Backgrounds

- Setting background images and colors
- Background properties and options

1.8 CSS Borders

- Styling borders with different properties
- Border radius and border images

1.9 CSS Margins, Padding, Height, and Width

- Controlling spacing and dimensions
- Understanding the box model

1.10 CSS Box Model

- Detailed exploration of the box model concept

1.11 CSS Outline

- Adding outlines to elements

1.12 CSS Text

- Styling text properties
- Text alignment, decoration, and transformation

1.13 CSS Fonts

- Working with different font properties
- Google Fonts integration

1.14 CSS Icons

- Integrating and styling icons in CSS

1.15 CSS Links

- Styling hyperlinks effectively

1.16 CSS Lists

- Styling ordered and unordered lists

1.17 CSS Tables

- Styling HTML tables with CSS

1.18 CSS Display

- Understanding the display property
- Block, inline, inline-block

1.19 CSS Max-width

- Controlling maximum width of elements

1.20 CSS Position

- Positioning elements (static, relative, absolute, fixed)

1.21 CSS Z-index

- Managing stacking order of elements

1.22 CSS Overflow

- Handling content overflow

1.23 CSS Float

- Floating elements for layout

1.24 CSS Inline-block

- Utilizing inline-block for layout

1.25 CSS Align

- Aligning elements horizontally and vertically

1.26 CSS Combinators

- Understanding and using combinators

1.27 CSS Pseudo-class

- Applying styles to specific states of elements

1.28 CSS Pseudo-element

- Styling specific parts of elements

1.29 CSS Opacity

- Creating translucent elements

1.30 CSS Navigation Bar

- Building and styling navigation menus

1.31 CSS Dropdowns

- Creating dropdown menus with CSS

1.32 CSS Image Gallery

- Designing image galleries with CSS

1.33 CSS Image Sprites

- Combining multiple images into a single sprite

1.34 CSS Attr Selectors

- Utilizing attribute selectors

1.35 CSS Forms

- Styling HTML forms with CSS

1.36 CSS Counters

- Implementing counters in CSS

1.37 CSS Website Layout

- Designing a complete website layout

1.38 CSS Units

- Understanding and using different units in CSS

1.39 CSS Specificity

- Grasping the concept of specificity in CSS

1.40 CSS !important

- Knowing when and how to use !important

1.41 CSS Math Functions

- Applying mathematical functions in CSS

Module 2: Advanced CSS Techniques (10 hours)

2.1 CSS Rounded Corners

- Creating rounded corners with CSS

2.2 CSS Border Images

- Using images as borders

2.3 CSS Backgrounds (Advanced)

- Advanced techniques for background styling

2.4 CSS Colors (Advanced)

- Exploring advanced color keywords and techniques

2.5 CSS Gradients

- Creating gradient backgrounds

2.6 CSS Shadows

- Applying box shadows and text shadows

2.7 CSS Text Effects

- Adding special effects to text

2.8 CSS Web Fonts

- Integrating custom fonts from the web

2.9 CSS 2D Transforms

- Transforming elements in 2D space

2.10 CSS 3D Transforms

- Adding depth with 3D transformations

2.11 CSS Transitions

- Implementing smooth transitions between states

2.12 CSS Animations

- Creating keyframe animations in CSS

2.13 CSS Tooltips

- Styling and positioning tooltips

2.14 CSS Style Images

- Applying styles to images

2.15 CSS Image Reflection

- Adding reflections to images

2.16 CSS object-fit

- Controlling how images fill their containers

2.17 CSS object-position

- Adjusting the position of replaced elements

2.18 CSS Masking

- Masking elements using CSS

2.19 CSS Buttons

- Styling and animating buttons

2.20 CSS Pagination

- Implementing pagination styles

2.21 CSS Multiple Columns

- Creating multi-column layouts

2.22 CSS User Interface

- Styling interactive elements (buttons, forms, etc.)

2.23 CSS Variables

- Utilizing CSS variables for dynamic styling

2.24 CSS Box Sizing

- Understanding and using box-sizing property

2.25 CSS Media Queries

- Introduction to responsive web design

2.26 CSS MQ Examples

- Practical examples of media queries

2.27 CSS Flexbox

- Mastering flexbox for layout design

Module 3: Responsive Web Design (RWD) (6 hours)

3.1 RWD Intro

- Understanding the concept of responsive web design

3.2 RWD Viewport

- Configuring the viewport for responsiveness

3.3 RWD Grid View

- Building responsive grid layouts

3.4 RWD Media Queries

- Creating breakpoints and adapting styles

3.5 RWD Images

- Responsive image techniques

3.6 RWD Videos

- Making videos responsive

3.7 RWD Frameworks

- Overview of popular responsive frameworks

3.8 RWD Templates

- Using responsive templates for faster development

Module 4: CSS Grid (2 hours)

4.1 Grid Intro

- Introduction to CSS Grid layout

4.2 Grid Container

- Configuring and styling grid containers

4.3 Grid Item

- Styling grid items within the layout

Module 5: CSS SASS (2 hours)

5.1 Sass Tutorial

- Overview of Sass and its benefits

5.2 Sass HOME

- Navigating the Sass documentation and resources

5.3 Sass Intro

- Introduction to the Sass preprocessor

5.4 Sass Installation

- Setting up Sass in a development environment

5.5 Sass Variables

- Declaring and using variables in Sass

5.6 Sass Nesting

- Nesting styles for improved readability

5.7 Sass @import

- Organizing styles with the @import directive

5.8 Sass @mixin

- Creating and using mixins in Sass

5.9 Sass @extend

- Extending styles with the @extend feature

Module 6: Sass Functions (2 hours)

6.1 Sass String

- Working with string functions in Sass

6.2 Sass Numeric

- Using numeric functions for calculations

6.3 Sass List

- Manipulating lists in Sass

6.4 Sass Map

- Utilizing maps in Sass

6.5 Sass Selector

- Advanced selector functions in Sass

6.6 Sass Introspection

- Inspecting and manipulating styles in Sass

6.7 Sass Color

- Color functions and techniques in Sass



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Unlock the world of coding

Ultimate JavaScript Fundamentals

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Who Is This For?

- Anyone pursuing a career in web or mobile development
- Front-end or back-end developers who use popular JavaScript libraries or frameworks who need a better understanding of the fundamentals
- Anyone wanting to gain a deep understanding of JavaScript
- Back-end developers who want to transition to full-stack development

Course Duration: 24 Hours

Module 1: Getting Started (2 hours)

- Introduction
- What is JavaScript
- Setting Up the Development Environment
- JavaScript in Browsers
- Separation of Concerns
- JavaScript in Node

Module 2: Basics (3 hours)

- Variables
- Constants
- Primitive Types
- Dynamic Typing
- Objects
- Arrays
- Functions
- Types of Functions

Module 3: Operators (3 hours)

- JavaScript Operators
- Arithmetic Operators
- Assignment Operators
- Comparison Operators
- Equality Operators
- Ternary Operator

- Logical Operators
- Logical Operators with Non-booleans
- Bitwise Operators
- Operators Precedence
- Quiz
- Exercise - Swapping Variables

Module 4: Control Flow (4 hours)

- If...else
- Switch...case
- For
- While
- Do...while
- Infinite Loops
- For...in
- For...of
- Break and Continue
- Exercise 1- Max of Two Numbers
- Exercise 2- Landscape or Portrait
- Exercise 3- FizzBuzz
- Exercise 4- Demerit Points
- Exercise 5- Even and Odd Numbers
- Exercise 6- Count Truthy
- Exercise 7- String Properties
- Exercise 8- Sum of Multiples of 3 and 5
- Exercise 9- Grade
- Exercise 10- Stars
- Exercise- Prime Numbers

Module 5: Objects (4 hours)

- Basics
- Factory Functions
- Constructor Functions
- Dynamic Nature of Objects
- Constructor Property
- Functions are Objects
- Value vs Reference Types
- Enumerating Properties of an Object
- Cloning an Object
- Garbage Collection
- Math
- String
- Template Literals
- Date
- Exercise 1- Address Object

- Exercise 2- Factory and Constructor Functions
- Exercise 3- Object Equality
- Exercise 4- Blog Post Object
- Exercise 5- Constructor Functions
- Exercise 6- Price Range Object
- A Quick Note

Module 6: Arrays (4 hours)

- Introduction
- Adding Elements
- Finding Elements
- Arrow Functions
- Removing Elements
- Emptying an Array
- Combining and Slicing Arrays
- The Spread Operator
- Iterating an Array
- Joining Arrays
- Sorting Arrays
- Testing the Elements of an Array
- Filtering an Array
- Mapping an Array
- Reducing an Array
- Exercise 1- Array from Range
- Exercise 2- Includes
- Exercise 3- Except
- Exercise 4- Moving an Element
- Exercise 5- Count Occurrences
- Exercise 6- Get Max
- Exercise 7- Movies

Module 7: Functions (4 hours)

- Function Declarations vs Expressions
- Hoisting
- Arguments
- The Rest Operator
- Default Parameters
- Getters and Setters
- Try and Catch
- Local vs Global Scope
- Let vs Var
- The this Keyword
- Changing this
- Exercise 1- Sum of Arguments
- Exercise 2- Area of Circle

- Exercise 3- Error Handling



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Unlock the world of coding

Mastering Bootstrap

From Basics to Advanced

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Prerequisites:

- Basic knowledge of HTML and CSS
- Familiarity with web development concepts

Course Duration: 28 Hours

Module 1: Introduction to Bootstrap (1 hour)

- Understanding the Basics of Bootstrap
- Setting up the Bootstrap Environment
- Exploring Bootstrap Documentation

Module 2: Bootstrap Layouts (2 hours)

- Using Containers for Page Structure
- Grid System Fundamentals
- Fixed Layout vs. Fluid Layout
- Crafting Responsive Designs with Bootstrap

Module 3: Typography and Styling (1 hour)

- Utilizing Bootstrap Typography
- Styling with Helper Classes

Module 4: Data Presentation (1.5 hours)

- Building Tables with Bootstrap
- Creating Lists and List Groups

Module 5: Forms and Inputs (2 hours)

- Building Forms with Bootstrap
- Customizing Form Elements
- Implementing Input Groups

Module 6: Buttons and Button Groups (1.5 hours)

- Styling Buttons with Bootstrap
- Creating Button Groups

Module 7: Images and Media (1.5 hours)

- Working with Images in Bootstrap
- Implementing Media Objects

Module 8: Cards and Icons (2 hours)

- Designing Cards with Bootstrap
- Integrating Icons into Your Website

Module 9: Navigation Components (2 hours)

- Building Navigation Bars
- Implementing Navs and Breadcrumbs
- Creating Accordion Menus

Module 10: Advanced Bootstrap Components (3 hours)

- Bootstrap Modals for Interactive Content
- Dropdown Menus and Tabs
- Collapsible Elements: Collapse and Tooltips
- Alerts for User Notifications

Module 11: Dynamic Content (2 hours)

- Creating Carousels for Image Sliders
- Implementing Typeahead for Auto-completion
- Using ScrollSpy for Navigation Enhancement
- Toasts for User Feedback

Module 12: Bootstrap Customization and Best Practices (1 hour)

- Customizing Bootstrap Styles
- Best Practices for Bootstrap Development