



CSS

(Cascading Style Sheets)

Course Syllabus



Course Description

The CSS Fundamentals course offers students a comprehensive understanding of Cascading Style Sheets (CSS) principles. Through modules, students learn to style and layout web pages, create engaging typography, apply animations, optimize CSS code, and develop responsive designs. They gain hands-on experience with CSS frameworks, preprocessors, cross-browser compatibility best practices, and accessibility and usability techniques.

Students will leave this course with a firm understanding of CSS and the abilities needed to produce attractive and responsive web designs. This course will provide you the skills and knowledge to efficiently use CSS for creating cutting-edge and expert websites, whether you're a newbie hoping to get started in web development or an experienced developer wishing to increase your CSS knowledge.

Course info

Prerequisite knowledge

- Basic understanding of HTML markup
- Familiarity with web browsers and their developer tools

Target Audience

- Web developers and designers seeking to enhance their CSS skills
- Students or professionals looking to enter the field of web development

Additional Information

- Basic knowledge of JavaScript is beneficial but not required for this course.
- Course combines lecture, exercises, and projects for learning reinforcement.

MODULES

1. Introduction to CSS
2. CSS Selectors
3. Colors and Backgrounds
4. Typography
5. CSS Box Model
6. CSS Units and Layout
7. Flexbox and Grid
8. Transitions and Animations
9. Responsive Web Design
10. CSS Best Practices and Optimization
11. CSS Frameworks and Libraries
12. CSS Preprocessors

Note: The modules and subtopics provided here are suggestions and can be tailored based on the specific requirements.



MODULE 1

Introduction to CSS

- What is CSS?
- Inline, internal, and external CSS
- CSS syntax and rules
- Selectors, rules and variables
- CSS comments



MODULE 2

CSS Selectors

- Element selectors
- Class selectors
- ID selectors
- Attribute selectors
- Pseudo-classes and pseudo-elements
- Specificity in CSS



MODULE 3

Colors and Backgrounds

- Color models and color values
- Background properties and gradients
- Opacity and transparency
- CSS3 effects and transitions
- Creating custom color schemes

MODULE 4

Typography

- Font properties and families
- Text styling and decoration
- Text alignment and spacing
- Web safe fonts and Google Fonts
- Responsive typography



MODULE 5

CSS Box Model

- Understanding the box model
- Margin, border, padding, and content
- Box-sizing property
- Working with box model properties
- Box model exercises and examples



MODULE 6

CSS Units and Layout

- Relative and absolute units
- Display property and its values
- Positioning elements (static, relative, absolute, fixed)
- Floats and clearing floats

MODULE 7

Flexbox and Grid

- Flexbox fundamentals
- Flex container and flex items
- Flexbox properties (flex-direction, flex-wrap, flex-grow)
- Grid container and grid items
- Grid properties (grid-template, grid-gap, grid-auto)
- Grid lines and tracks



MODULE 8

Transitions and Animations

- Transition properties and values
- CSS keyframes and animation properties
- Transformations (rotate, scale, translate, skew)
- Animating opacity and color
- Animation timing and easing functions



MODULE 9

Responsive Web Design

- Understanding responsive design principles
- CSS media queries
- Fluid layouts and percentage-based units
- Responsive typography
- Mobile-first design approach



MODULE 10

CSS Best Practices and Optimization

- CSS organization and naming conventions
- Performance optimization techniques
- CSS resets and frameworks
- Vendor prefixes and browser compatibility
- Debugging and troubleshooting CSS



MODULE 11

CSS Frameworks and Libraries

- Introduction to CSS frameworks (Bootstrap, Foundation)
- Grid systems and responsive design in frameworks
- Customizing and extending CSS frameworks
- Using CSS libraries (Animate.css, Hover.css)
- Pros and cons of CSS frameworks

MODULE 12

CSS Preprocessors

- Introduction to CSS preprocessors
- Working with Sass and Less
- Variables and mixins
- Nesting and inheritance
- Compiling preprocessors to CSS

צרו קשר

מי אנחנו?

חברה המעבירה הדרכות והשתלמויות בעולמות הטכנולוגיה וההייטק לארגונים ששואפים גבוה ורוצים לגעת בשיא הטכנולוגיה. ההדרכות מותאמות באופן אישי לכל מטרה, כאשר תכני הלימוד נבנים בהתאם לצורכי הארגון, יעדיו ודרישותיו. CodePro משמשת גם ככוח אדם ומספקת לארגונים מרצים, מפתחים ויועצים טכנולוגיים על פי דרישה.

בנוסף לתחום ההדרכה, ל- CodePro בית תוכנה ומחלקת ייעוץ המלווה חברות הייטק וגופים טכנולוגיים בתהליכי פיתוח ממשקים מאתגרים. לצוות יכולת להעניק ייעוץ ותמיכה במקרים מורכבים בהם דרושה טכנולוגיה ספציפית, כמו גם בתהליך הקמת צוותים טכנולוגיים בארגונים.

נשמח לשמוע ממכם!

לפרטים נוספים ושאלות

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