Welcome to the freeCodeCamp curriculum

We have thousands of coding lessons to help you improve your skills

You can earn each certification by completing its 5 final projects.

And yes - all of this is 100% free, thanks to the thousands of campers who donate to our nonprofit.

If you are new to coding, we recommend you start at the beginning.

▼ Responsive Web Design Certification (300 hours)

▼ Basic HTML and HTML5

Introduction to Basic HTML and HTML5

- Say Hello to HTML Elements
- Headline with the h2 Element
- Inform with the Paragraph Eleme
- Fill in the Blank with Placeholder Text
- ☑ Uncomment HTML
- Delete HTML Elements
- Introduction to HTML5 Elements
- Add Images to Your Website
- Link to External Pages with Anchor Elements
- Link to Internal Sections of a Page with Anchor Elements
- Nest an Anchor Element within a Paragraph
- Make Dead Links Using the Hash Symbol
- Turn an Image into a Link
- Create a Bulleted Unordered List
- Create an Ordered List
- Create a Text Field
- Add Placeholder Text to a Text Field
- Create a Form Element
- Add a Submit Button to a Form
- Use HTML5 to Require a Field
- Create a Set of Radio Buttons
- Create a Set of Checkboxes
- Check Radio Buttons and Checkboxes by Default
- Nest Many Elements within a Single div Element
- Declare the Doctype of an HTML Document
- Define the Head and Body of an HTML Document

▼ Basic C55

Introduction to Basic CSS

- Change the Color of Text
- Use CSS Selectors to Style Elements Use a CSS Class to Style an Element
- Style Multiple Elements with a CSS Class
- Change the Font Size of an Element Set the Font Family of an Element
- ☑ Import a Google Font
- Specify How Fonts Should Degrade
- Size Your I mages
- Add Borders Around Your Elements
- Add Rounded Corners with border-radius
- Make Circular Images with a border-radius
- Give a Background Color to a div Element
- Set the id of an Element
- Use an id Attribute to Style an Element
- Adjust the Padding of an Element
- Adjust the Margin of an Element Add a Negative Margin to an Element
- Add Different Padding to Each Side of an Element
- Add Different Margins to Each Side of an Element
- Use Clockwise Notation to Specify the Padding of an Element
- Use Clockwise Notation to Specify the Margin of an Element
- Use Attribute Selectors to Style Elements
- Understand Absolute versus Relative Units Style the HTML Body Element
- Inherit Styles from the Body Element Prioritize One Style Over Another
- Override Styles in Subsequent CSS
- Override Class Declarations by Styling ID Attributes
- Override Class Declarations with Inline Styles
- Override All Other Styles by using Important
- Use Hex Code for Specific Colors
- Use Hex Code to Mix Colors
- Use Abbreviated Hex Code
- Use RGB values to Color Elements
- Use RGB to Mix Colors
- Use CSS Variables to change several elements at once
- Create a custom CSS Variable
- Use a custom CSS Variable
- Attach a Fallback value to a CSS Variable
- Improve Compatibility with Browser Fallbacks
- Cascading CSS variables



- Change a variable for a specific area
- Use a media query to change a variable

Applied Visual Design

▼ Applied Accessibility

Introduction to the Applied Accessibility Challenges

- Add a Text Alternative to Images for Visually Impaired Accessibility
- ✓ Know When Alt Text Should be Left Blank
- Use Headings to Show Hierarchical Relationships of Content
- Jump Straight to the Content Using the main Element
- ✓ Wrap Content in the article Element
- Make Screen Reader Navigation Easier with the header Landmark
- Make Screen Reader Navigation Easier with the nav Landmark
- Make Screen Reader Navigation Easier with the footer Landmark
- Improve Accessibility of Audio Content with the audio Element
- ☑ Improve Chart Accessibility with the figure Element
- Improve Form Field Accessibility with the label Element
- ☑ Wrap Radio Buttons in a fieldset Element for Better Accessibility
- Add an Accessible Date Picker
- Standardize Times with the HTML5 datetime Attribute
- Make Elements Only Visible to a Screen Reader by Using Custom CSS
- ☑ Improve Readability with High Contrast Text
- Avoid Colorblindness Issues by Using Sufficient Contrast
- Avoid Colorblindness Issues by Carefully Choosing Colors that Convey Information
- Give Links Meaning by Using Descriptive Link Text
- Make Links Navigatable with HTML Access Keys
- Usetabindex to Add Keyboard Focus to an Element
- Use tabindex to Specify the Order of Keyboard Focus for Several Elements

▼ Responsive Web Design Principles

Introduction to the Responsive Web Design Challenges

- Create a Media Query
- Make an Image Responsive
- Use a Retina Image for Higher Resolution Displays
- Make Typography Responsive

▼ C55 Flexbox

Introduction to the CSS Flexbox Challenges

- Use display: flex to Position Two Boxes
- Use the flex-direction Property to Make a Row
 Apply the flex-direction Property to Greate Rows in the Tweet Embed
- Use the flex-direction Property to Make a Column
- Apply the flex-direction Property to Create a Column in the Tweet Embed
- Align Elements Using the justify-content Property
- Use the justify-content Property in the Tweet Embed
- Align Elements Using the align-items Property
 Use the align-items Property in the Tweet Embed
- Use the flex-wrap Property to Wrap a Row or Column
- Use the flex-shrink Property to Shrink I tems
- Use the flex-grow Property to Expand I tems
- Use the flex-basis Property to Set the Initial Size of an Item
- Use the flex Shorthand Property
- Use the order Property to Rearrange I tems
- Use the align-self Property

▼ C55 Grid

Introduction to the CSS Grid Challenges

- Create Your First CSS Grid
- Add Columns with grid-template-columns
- Add Rows with grid-template-rows
- Use CSS Grid units to Change the Size of Columns and Rows
- Create a Column Gap Using grid-column-gap
- Add Gaps Faster with grid-gap
- Usegrid-column to Control Spacing
 Usegrid-row to Control Spacing
- Align an Item Horizontally using justify-self
- O Align an Item Vertically using align-self
- Align All Items Horizontally using justify-items
- Align All Items Vertically using align-items
- O Divide the Grid Into an Area Template
- Place I tems in Grid Areas Using the grid-area Property
- Use grid-area Without Creating an Areas Template
- Reduce Repetition Using the repeat Function
- Limit I tem Size Using the minmax Function
 Create Flexible Layouts Using auto-fill
- Create Flexible Layouts Using auto-fit
- Use Media Queries to Create Responsive Layouts
- Create Grids within Grids

Responsive Web Design Projects

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	roduction to JavaScript
0	Comment Your JavaScript Code
0	Declare Java Script Variables
0	Storing Values with the Assignment Operator
	Initializing Variables with the Assignment Operator
0	Understanding Uninitialized Variables
0	Understanding Case Sensitivity in Variables
0	Add Two Numbers with JavaScript
	Subtract One Number from Another with JavaScript
0	Multiply Two Numbers with JavaScript
0	Divide One Number by Another with JavaScript
0	Increment a Number with JavaScript
	Decrement a Number with JavaScript
0	Create Decimal Numbers with JavaScript
0	Multiply Two Decimals with JavaScript
0	Divide One Decimal by Another with JavaScript
_	Finding a Remainder in JavaScript
0	Compound Assignment With Augmented Addition
0	Compound Assignment With Augmented Subtraction
0	Compound Assignment With Augmented Multiplication
	Compound Assignment With Augmented Division
0	Declare String Variables
0	Escaping Literal Quotes in Strings
	Quoting Strings with Single Quotes
	Escape Sequences in Strings
	Concatenating Strings with Plus Operator
0	Concatenating Strings with the Plus Equals Operator
	Constructing Strings with Variables
	Appending Variables to Strings
0	Find the Length of a String
0	Use Bracket Notation to Find the First Character in a String
0	Understand String Immutability
	Use Bracket Notation to Find the Nth Character in a String
0	Use Bracket Notation to Find the Last Character in a String
0	Use Bracket Notation to Find the Nth-to-Last Character in a String
	Word Blanks
	Store Multiple Values in one Variable using JavaScript Arrays
0	Nest one Array within Another Array
0	Access Array Data with Indexes
	Modify Array Data With Indexes
	Access Multi-Dimensional Arrays With Indexes
0	Manipulate Arrays With push()
0	Manipulate Arrays With pop()
	Manipulate Arrays With shift()
0	Manipulate Arrays With unshift()
0	Shopping List
0	Write Reusable Java Script with Functions
	Passing Values to Functions with Arguments
	Global Scope and Functions
0	Local Scope and Functions
0	Global vs. Local Scope in Functions
	Return a Value from a Function with Return
	Understanding Undefined Value returned from a Function
	Assignment with a Returned Value
0	Stand in Line
0	Understanding Boolean Values
	Use Conditional Logic with If Statements
	Comparison with the Equality Operator
	Comparison with the Strict Equality Operator
0	Practice comparing different values
0	Comparison with the Inequality Operator
	Comparison with the Strict Inequality Operator
	Comparison with the Greater Than Operator
0	Comparison with the Greater Than Operator Comparison with the Greater Than Or Equal To Operator
0	Comparison with the Greater Than Or Equal To Operator Comparison with the Less Than Operator
0	Comparison with the Greater Than Or Equal To Operator Comparison with the Less Than Operator Comparison with the Less Than Or Equal To Operator
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 ▶ Object Oriented Programming ▶ Functional Programming ▶ Intermediate Algorithm Scripting
► Functional Programming Intermediate Algorithm Scripting
► Intermediate Algorithm Scripting
▶ JavaScript Algorithms and Data Structures Projects
Front End Libraries Certification (300 hours)
Data Visualization Certification (300 hours)
► Apis And Microservices Certification (300 hours)
Information Security And Quality Assurance Certification (300 hour
Coding Interview Prep (Thousands of hours of challenges)