

# Responsive Web Design



In this Responsive Web Design Certification, you'll learn the languages that developers use to build webpages: HTML (Hypertext Markup Language) for content, and CSS (Cascading Style Sheets) for design.

First, you'll build a cat photo app to learn the basics of HTML and CSS. Later, you'll learn modern techniques like CSS variables by building a penguin, and best practices for accessibility by building a web form.

Finally, you'll learn how to make webpages that respond to different screen sizes by building a Twitter card with Flexbox, and a complex blog layout with CSS Grid.

Note: Some browser extensions, such as ad-blockers and dark mode extensions can interfere with the tests. If you face issues, we recommend disabling extensions that modify the content or layout of pages, while taking the course.

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## Basic HTML and HTML5

HTML is a markup language that uses a special syntax or notation to describe the structure of a webpage to the browser. HTML elements usually have opening and closing tags that surround and give meaning to content. For example, different elements can describe text as a heading, paragraph, or list item.

In this course, you'll build a cat photo app to learn some of the most common HTML elements — the building blocks of any webpage.

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- ✔ Nest an Anchor Element within a Paragraph (</learn/responsive-web-design/basic-html-and-html5/nest-an-anchor-element-within-a-paragraph>)
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- ✔ Turn an Image into a Link (</learn/responsive-web-design/basic-html-and-html5/turn-an-image-into-a-link>)
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- ✔ Create an Ordered List (</learn/responsive-web-design/basic-html-and-html5/create-an-ordered-list>)

- ✔ Create a Text Field (</learn/responsive-web-design/basic-html-and-html5/create-a-text-field>)
- ✔ Add Placeholder Text to a Text Field (</learn/responsive-web-design/basic-html-and-html5/add-placeholder-text-to-a-text-field>)
- ✔ Create a Form Element (</learn/responsive-web-design/basic-html-and-html5/create-a-form-element>)
- ✔ Add a Submit Button to a Form (</learn/responsive-web-design/basic-html-and-html5/add-a-submit-button-to-a-form>)
- ✔ Use HTML5 to Require a Field (</learn/responsive-web-design/basic-html-and-html5/use-html5-to-require-a-field>)
- ✔ Create a Set of Radio Buttons (</learn/responsive-web-design/basic-html-and-html5/create-a-set-of-radio-buttons>)
- ✔ Create a Set of Checkboxes (</learn/responsive-web-design/basic-html-and-html5/create-a-set-of-checkboxes>)
- ✔ Use the value attribute with Radio Buttons and Checkboxes (</learn/responsive-web-design/basic-html-and-html5/use-the-value-attribute-with-radio-buttons-and-checkboxes>)
- ✔ Check Radio Buttons and Checkboxes by Default (</learn/responsive-web-design/basic-html-and-html5/check-radio-buttons-and-checkboxes-by-default>)

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- ✔ Nest Many Elements within a Single div Element (</learn/responsive-web-design/basic-html-and-html5/nest-many-elements-within-a-single-div-element>)
- ✔ Declare the Doctype of an HTML Document (</learn/responsive-web-design/basic-html-and-html5/declare-the-doctype-of-an-html-document>)
- ✔ Define the Head and Body of an HTML Document (</learn/responsive-web-design/basic-html-and-html5/define-the-head-and-body-of-an-html-document>)


## Basic CSS

CSS, or Cascading Style Sheets, tell the browser how to display the text and other content that you write in HTML. With CSS, you can control the color, font, size, spacing, and many other aspects of HTML elements.

Now that you've described the structure of your cat photo app, give it some style with CSS.

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- ✔ Change the Color of Text (</learn/responsive-web-design/basic-css/change-the-color-of-text>)
- ✔ Use CSS Selectors to Style Elements (</learn/responsive-web-design/basic-css/use-css-selectors-to-style-elements>)  Menu ( /Asi
- ✔ Use a CSS Class to Style an Element (</learn/responsive-web-design/basic-css/use-a-css-class-to-style-an-element>)

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✔ Style Multiple Elements with a CSS Class	(/learn/responsive-web-design/basic-css/style-multiple-elements-with-a-css-class)
✔ Change the Font Size of an Element	(/learn/responsive-web-design/basic-css/change-the-font-size-of-an-element)
✔ Set the Font Family of an Element	(/learn/responsive-web-design/basic-css/set-the-font-family-of-an-element)
✔ Import a Google Font	(/learn/responsive-web-design/basic-css/import-a-google-font)
✔ Specify How Fonts Should Degrade	(/learn/responsive-web-design/basic-css/specify-how-fonts-should-degrade)
✔ Size Your Images	(/learn/responsive-web-design/basic-css/size-your-images)
✔ Add Borders Around Your Elements	(/learn/responsive-web-design/basic-css/add-borders-around-your-elements)
✔ Add Rounded Corners with border-radius	(/learn/responsive-web-design/basic-css/add-rounded-corners-with-border-radius)
✔ Make Circular Images with a border-radius	(/learn/responsive-web-design/basic-css/make-circular-images-with-a-border-radius)

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- ✔ Give a Background Color to a div Element (</learn/responsive-web-design/basic-css/give-a-background-color-to-a-div-element>)
- ✔ Set the id of an Element (</learn/responsive-web-design/basic-css/set-the-id-of-an-element>)
- ✔ Use an id Attribute to Style an Element (</learn/responsive-web-design/basic-css/use-an-id-attribute-to-style-an-element>)
- ✔ Adjust the Padding of an Element (</learn/responsive-web-design/basic-css/adjust-the-padding-of-an-element>)
- ✔ Adjust the Margin of an Element (</learn/responsive-web-design/basic-css/adjust-the-margin-of-an-element>)
- ✔ Add a Negative Margin to an Element (</learn/responsive-web-design/basic-css/add-a-negative-margin-to-an-element>)
- ✔ Add Different Padding to Each Side of an Element (</learn/responsive-web-design/basic-css/add-different-padding-to-each-side-of-an-element>)
- ✔ Add Different Margins to Each Side of an Element (</learn/responsive-web-design/basic-css/add-different-margins-to-each-side-of-an-element>)
- ✔ Use Clockwise Notation to Specify ([/learn/responsive-web-design/basic-css/use-clockwise-](/learn/responsive-web-design/basic-css/use-clockwise-notation-to-specify)



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the Padding of an Element      notation-to-specify-the-padding-of-an-element)

- ✔ Use Clockwise Notation to Specify the Margin of an Element      (/learn/responsive-web-design/basic-css/use-clockwise-notation-to-specify-the-margin-of-an-element)
- ✔ Use Attribute Selectors to Style Elements      (/learn/responsive-web-design/basic-css/use-attribute-selectors-to-style-elements)
- ✔ Understand Absolute versus Relative Units      (/learn/responsive-web-design/basic-css/understand-absolute-versus-relative-units)
- ✔ Style the HTML Body Element      (/learn/responsive-web-design/basic-css/style-the-html-body-element)
- ✔ Inherit Styles from the Body Element      (/learn/responsive-web-design/basic-css/inherit-styles-from-the-body-element)
- ✔ Prioritize One Style Over Another      (/learn/responsive-web-design/basic-css/prioritize-one-style-over-another)
- ✔ Override Styles in Subsequent CSS      (/learn/responsive-web-design/basic-css/override-styles-in-subsequent-css)
- ✔ Override Class Declarations by Styling ID Attributes      (/learn/responsive-web-design/basic-css/override-class-declarations-by-styling-id-attributes)

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- ✔ Override Class Declarations with Inline Styles (</learn/responsive-web-design/basic-css/override-class-declarations-with-inline-styles>)
- ✔ Override All Other Styles by using Important (</learn/responsive-web-design/basic-css/override-all-other-styles-by-using-important>)
- ✔ Use Hex Code for Specific Colors (</learn/responsive-web-design/basic-css/use-hex-code-for-specific-colors>)
- ✔ Use Hex Code to Mix Colors (</learn/responsive-web-design/basic-css/use-hex-code-to-mix-colors>)
- ✔ Use Abbreviated Hex Code (</learn/responsive-web-design/basic-css/use-abbreviated-hex-code>)
- ✔ Use RGB values to Color Elements (</learn/responsive-web-design/basic-css/use-rgb-values-to-color-elements>)
- ✔ Use RGB to Mix Colors (</learn/responsive-web-design/basic-css/use-rgb-to-mix-colors>)
- ✔ Use CSS Variables to change several elements at once (</learn/responsive-web-design/basic-css/use-css-variables-to-change-several-elements-at-once>)
- ✔ Create a custom CSS Variable (</learn/responsive-web-design/basic-css/create-a-custom-css-variable>)
- ✔ Use a custom CSS Variable (</learn/responsive-web-design/basic-css/use-a-custom-css-variable>)

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- ✔ Attach a Fallback (/learn/responsive-web-value to a CSS design/basic-css/attach-a-fallback-Variable value-to-a-css-variable)
- ✔ Improve (/learn/responsive-web-Compatibility with design/basic-css/improve-Browser Fallbacks compatibility-with-browser-fallbacks)
- ✔ Inherit CSS (/learn/responsive-web-design/basic-Variables css/inherit-css-variables)
- ✔ Change a variable (/learn/responsive-web-design/basic-for a specific css/change-a-variable-for-a-area specific-area)
- ✔ Use a media query (/learn/responsive-web-design/basic-to change a css/use-a-media-query-to-change-a-variable variable)

## Applied Visual Design

Visual design is a combination of typography, color theory, graphics, animation, page layout, and more to help deliver your unique message.

In this course, you'll learn how to apply these different elements of visual design to your webpages.

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## Applied Accessibility

In web development, accessibility refers to web content and a UI (user interface) that can be understood, navigated, and interacted with by a broad audience. This includes people with visual, auditory, mobility, or cognitive disabilities.

In this course, you'll learn best practices for building webpages that are accessible to everyone.

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## Responsive Web Design Principles

There are many devices that can access the web, and they come in all shapes and sizes. Responsive web design is the practice of designing flexible websites that can respond to different screen sizes, orientations, and resolutions.

In this course, you'll learn how to use CSS to make your webpages look good, no matter what device they're viewed on.

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✓ Create a Media Query (</learn/responsive-web-design/responsive-web-design-principles/create-a-media-query>)

✓ Make an Image Responsive (</learn/responsive-web-design/responsive-web-design-principles/make-an-image-responsive>)

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✓ Use a Retina Image for Higher Resolution (</learn/responsive-web-design/responsive-web-design-principles/use-a-retina-image-for-higher-resolution>)

Displays

higher-resolution-displays)

- ✔ Make (/learn/responsive-web-design/responsive-typography/web-design-principles/make-typography-responsive/responsive)

## CSS Flexbox

Flexbox is a powerful, well-supported layout method that was introduced with the latest version of CSS, CSS3. With flexbox, it's easy to center elements on the page and create dynamic user interfaces that shrink and expand automatically.

In this course, you'll learn the fundamentals of flexbox and dynamic layouts by building a Twitter card.

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- ✔ Use display: flex (/learn/responsive-web-design/css-to-position-two-flexbox/use-display-flex-to-position-two-boxes)
- ✔ Add Flex Superpowers to the Tweet Embed (/learn/responsive-web-design/css-flexbox/add-flex-superpowers-to-the-tweet-embed)
- ✔ Use the flex-direction Property to Make a Row (/learn/responsive-web-design/css-flexbox/use-the-flex-direction-property-to-make-a-row)
- ✔ Apply the flex-direction Property to Create Rows in the Tweet Embed (/learn/responsive-web-design/css-flexbox/apply-the-flex-direction-property-to-create-rows-in-the-tweet-embed)

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- ✔ Use the flex-direction Property to Make a Column (</learn/responsive-web-design/css-flexbox/use-the-flex-direction-property-to-make-a-column>)
- ✔ Apply the flex-direction Property to Create a Column in the Tweet Embed (</learn/responsive-web-design/css-flexbox/apply-the-flex-direction-property-to-create-a-column-in-the-tweet-embed>)
- ✔ Align Elements Using the justify-content Property (</learn/responsive-web-design/css-flexbox/align-elements-using-the-justify-content-property>)
- ✔ Use the justify-content Property in the Tweet Embed (</learn/responsive-web-design/css-flexbox/use-the-justify-content-property-in-the-tweet-embed>)
- ✔ Align Elements Using the align-items Property (</learn/responsive-web-design/css-flexbox/align-elements-using-the-align-items-property>)
- ✔ Use the align-items Property in the Tweet Embed (</learn/responsive-web-design/css-flexbox/use-the-align-items-property-in-the-tweet-embed>)
- ✔ Use the flex-wrap Property to Wrap a Row or Column (</learn/responsive-web-design/css-flexbox/use-the-flex-wrap-property-to-wrap-a-row-or-column>)
- ✔ Use the flex-shrink Property to Shrink Items (</learn/responsive-web-design/css-flexbox/use-the-flex-shrink-property-to-shrink-items>)  (/Asi)
- ✔ Use the flex-grow (</learn/responsive-web-design/css-flexbox/use-the-flex-grow-property-to-grow-items>)

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Expand Items `to-expand-items)`

- ✔ Use the flex-basis `(/learn/responsive-web-Property to Set the design/css-flexbox/use-the-flex-Initial Size of an basis-property-to-set-the-Item initial-size-of-an-item)`
- ✔ Use the flex `(/learn/responsive-web-design/css-Shorthand flexbox/use-the-flex-shorthand-Property property)`
- ✔ Use the order `(/learn/responsive-web-design/css-Property to flexbox/use-the-order-property-to-Rearrange Items rearrange-items)`
- ✔ Use the align- `(/learn/responsive-web-design/css-self Property flexbox/use-the-align-self-property)`

## CSS Grid

The CSS grid is a newer standard that makes it easy to build complex responsive layouts. It works by turning an HTML element into a grid, and lets you place child elements anywhere within.

In this course, you'll learn the fundamentals of CSS grid by building different complex layouts, including a blog.

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✔ Create Your **(/learn)** `(/learn/responsive-web-design/css-First CSS Grid grid/create-your-first-css-grid)`

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✔ Add Columns with `(/learn/responsive-web-design/css-grid-template grid-template-columns/add-columns-with-grid-template-`

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columns)

- ✔ Add Rows with grid-template-rows (</learn/responsive-web-design/css-grid/add-rows-with-grid-template-rows>)
- ✔ Use CSS Grid units to Change the Size of Columns and Rows (</learn/responsive-web-design/css-grid/use-css-grid-units-to-change-the-size-of-columns-and-rows>)
- ✔ Create a Column Gap Using grid-column-gap (</learn/responsive-web-design/css-grid/create-a-column-gap-using-grid-column-gap>)
- ✔ Create a Row Gap using grid-row-gap (</learn/responsive-web-design/css-grid/create-a-row-gap-using-grid-row-gap>)
- ✔ Add Gaps Faster with grid-gap (</learn/responsive-web-design/css-grid/add-gaps-faster-with-grid-gap>)
- ✔ Use grid-column to Control Spacing (</learn/responsive-web-design/css-grid/use-grid-column-to-control-spacing>)
- ✔ Use grid-row to Control Spacing (</learn/responsive-web-design/css-grid/use-grid-row-to-control-spacing>)
- ✔ Align an Item Horizontally using justify-self (</learn/responsive-web-design/css-grid/align-an-item-horizontally-using-justify-self>)
- ✔ Align an Item Vertically using (</learn/responsive-web-design/css-grid/align-an-item-vertically-using-justify-self>)

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- ✔ Align All Items Horizontally using `grid/align-all-items-horizontally-justify-items` using-justify-items)
- ✔ Align All Items Vertically using `grid/align-all-items-vertically-align-items` using-align-items)
- ✔ Divide the Grid Into an Area Template `grid/divide-the-grid-into-an-area-template`
- ✔ Place Items in Grid Areas Using the `grid/place-items-in-grid-areas-grid-area` Property using-the-grid-area-property)
- ✔ Use `grid-area` Without Creating an Areas Template `grid/use-grid-area-without-creating-an-areas-template`
- ✔ Reduce Repetition Using the `repeat` Function `grid/reduce-repetition-using-the-repeat-function`
- ✔ Limit Item Size Using the `minmax` Function `grid/limit-item-size-using-the-minmax-function`
- ✔ Create Flexible Layouts Using `auto-fill` **(/learn)** `grid/create-flexible-layouts-using-auto-fill`
- ✔ Create Flexible Layouts Using `auto-fit` `grid/create-flexible-layouts-using-auto-fit`

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- ✔ Use Media Queries (</learn/responsive-web-design/css-to-create-grid/use-media-queries-to-create-responsive-layouts>)
- ✔ Create Grids (</learn/responsive-web-design/css-within-grids/create-grids-within-grids>)

## Responsive Web Design Projects

Time to put your newly learnt skills to work. By working on these projects, you will get a chance to apply all of the skills, principles, and concepts you have learned so far: HTML, CSS, Visual Design, Accessibility, and more.

Complete the five web programming projects below to earn your Responsive Web Design certification.

Build a Tribute Page ✔ (</learn/responsive-web-design/responsive-web-design-projects/build-a-tribute-page>)

Build a Survey Form ✔ (</learn/responsive-web-design/responsive-web-design-projects/build-a-survey-form>)

Build a Product Landing Page ✔ (</learn/responsive-web-design/responsive-web-design-projects/build-a-product-landing-page>)

Build a Technical Documentation Page ✔ (</learn/responsive-web-design/responsive-web-design-projects/build-a-technical-documentation-page>)

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Build a ✔ (</learn/responsive-web-design-projects/build-a-tribute-page>)

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Portfolio projects/build-a-personal-portfolio-  
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Complete the following steps to claim and view your Responsive Web Design Certification

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- ✔ Accept our Academic Honesty Policy (/settings#honesty-policy)
- Complete Responsive Web Design Certification Projects
- ✔ Set your profile settings to public (/settings#privacy-settings)
- ✔ Set your certification settings (/settings#privacy-settings) to public
- ✔ Set your name, and make it public (/settings#privacy-settings)

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