Prerequisites

Intro to HTML and CSS

Getting Familiar with HTML and CSS

Learn the basic structure of a web page, how HTML and CSS are used to change the structure and appearance of web pages, and how HTML and CSS fit into the larger world of web development.

#### **[Welcome to HTML and CSS](https://teamtreehouse.com/library/introduction-to-html-and-css/-getting-familiar-with-html-and-css/welcome-to-html-and-css)**

[4:28](https://teamtreehouse.com/library/introduction-to-html-and-css/-getting-familiar-with-html-and-css/welcome-to-html-and-css)

#### **[Building Web Pages with HTML and CSS](https://teamtreehouse.com/library/-building-web-pages-with-html-and-css)**

[4:49](https://teamtreehouse.com/library/-building-web-pages-with-html-and-css)

#### **[HTML, CSS, and Web Development](https://teamtreehouse.com/library/html-css-and-web-development)**

[2:16](https://teamtreehouse.com/library/html-css-and-web-development)

#### **[Review: Getting Familiar with HTML and CSS](https://teamtreehouse.com/library/introduction-to-html-and-css/-getting-familiar-with-html-and-css/review-getting-familiar-with-html-and-css)**

[6 questions](https://teamtreehouse.com/library/introduction-to-html-and-css/-getting-familiar-with-html-and-css/review-getting-familiar-with-html-and-css)

#### **[Test: Changing the Look of a Web Page](https://teamtreehouse.com/library/introduction-to-html-and-css/-getting-familiar-with-html-and-css/test-changing-the-look-of-a-web-page)**

[2 objectives](https://teamtreehouse.com/library/introduction-to-html-and-css/-getting-familiar-with-html-and-css/test-changing-the-look-of-a-web-page)

## HTML: The Structural Foundation of Web Pages and Applications

HTML is a series of tags that tells web browsers how to render, or display, a web page. You will wrap the content in these tags to describe the elements on the page and how they should be structured. Learn some useful and commonly used HTML tags and how to use them to start building your web pages.

#### **[The Basic Structure of a Web Page](https://teamtreehouse.com/library/the-basic-structure-of-a-web-page)**

[5:20](https://teamtreehouse.com/library/the-basic-structure-of-a-web-page)

#### **[Review: Parts of an HTML Page](https://teamtreehouse.com/library/introduction-to-html-and-css/html-the-structural-foundation-of-web-pages-and-applications/review-parts-of-an-html-page)**

[5 questions](https://teamtreehouse.com/library/introduction-to-html-and-css/html-the-structural-foundation-of-web-pages-and-applications/review-parts-of-an-html-page)

#### **[Image Tags](https://teamtreehouse.com/library/image-tags)**

[3:44](https://teamtreehouse.com/library/image-tags)

#### **[Paragraph Tags](https://teamtreehouse.com/library/paragraph-tags)**

[2:40](https://teamtreehouse.com/library/paragraph-tags)

#### **[Anchor Tags](https://teamtreehouse.com/library/anchor-tags)**

[3:25](https://teamtreehouse.com/library/anchor-tags)

#### **[Review: Common HTML tags](https://teamtreehouse.com/library/introduction-to-html-and-css/html-the-structural-foundation-of-web-pages-and-applications/review-common-html-tags)**

[5 questions](https://teamtreehouse.com/library/introduction-to-html-and-css/html-the-structural-foundation-of-web-pages-and-applications/review-common-html-tags)

#### **[Test: Creating an HTML Element](https://teamtreehouse.com/library/introduction-to-html-and-css/html-the-structural-foundation-of-web-pages-and-applications/test-creating-an-html-element)**

[3 objectives](https://teamtreehouse.com/library/introduction-to-html-and-css/html-the-structural-foundation-of-web-pages-and-applications/test-creating-an-html-element)

#### **[HTML Lists](https://teamtreehouse.com/library/-html-lists)**

[2:32](https://teamtreehouse.com/library/-html-lists)

## Make It Beautiful With CSS

CSS, or Cascading Style Sheets, is a system for selecting HTML tags and defining their appearance. From the text, color and alignment, to the height, width and space between them, learn a few different ways to select and style HTML elements using CSS.

 6 steps

#### **[Select and Style by Element](https://teamtreehouse.com/library/select-and-style-by-element)**

[6:14](https://teamtreehouse.com/library/select-and-style-by-element)

#### **[Select and Style by Class](https://teamtreehouse.com/library/select-and-style-by-class)**

[5:10](https://teamtreehouse.com/library/select-and-style-by-class)

#### **[Test: Styling by Element and Class](https://teamtreehouse.com/library/introduction-to-html-and-css/make-it-beautiful-with-css/test-styling-by-element-and-class)**

[3 objectives](https://teamtreehouse.com/library/introduction-to-html-and-css/make-it-beautiful-with-css/test-styling-by-element-and-class)

#### **[Select and Style Multiple Elements by Class](https://teamtreehouse.com/library/select-and-style-multiple-elements-by-class)**

[4:33](https://teamtreehouse.com/library/select-and-style-multiple-elements-by-class)

#### **[Review: Make It Beautiful with CSS](https://teamtreehouse.com/library/introduction-to-html-and-css/make-it-beautiful-with-css/review-make-it-beautiful-with-css)**

[5 questions](https://teamtreehouse.com/library/introduction-to-html-and-css/make-it-beautiful-with-css/review-make-it-beautiful-with-css)

#### **[Adding a Style to several Elements using Class](https://teamtreehouse.com/library/introduction-to-html-and-css/make-it-beautiful-with-css/-adding-a-style-to-several-elements-using-class)**

[3 objectives](https://teamtreehouse.com/library/introduction-to-html-and-css/make-it-beautiful-with-css/-adding-a-style-to-several-elements-using-class)

## Adding a New Web Page

By adding a resume page to the example project, you will get a quick and simple introduction to setting up an HTML document and linking a CSS stylesheet.

 7 steps

#### **[Set up an HTML Document](https://teamtreehouse.com/library/set-up-an-html-document)**

[4:01](https://teamtreehouse.com/library/set-up-an-html-document)

#### **[Write the HTML](https://teamtreehouse.com/library/write-the-html)**

[2:23](https://teamtreehouse.com/library/write-the-html)

#### **[Write the CSS](https://teamtreehouse.com/library/write-the-css)**

[6:22](https://teamtreehouse.com/library/write-the-css)

#### **[Test: Write and Style an Element](https://teamtreehouse.com/library/introduction-to-html-and-css/adding-a-new-web-page/-test-write-and-style-an-element)**

[3 objectives](https://teamtreehouse.com/library/introduction-to-html-and-css/adding-a-new-web-page/-test-write-and-style-an-element)

#### **[Linking It All Up](https://teamtreehouse.com/library/-linking-it-all-up)**

[2:40](https://teamtreehouse.com/library/-linking-it-all-up)

#### **[Test: Link It Up Challenge](https://teamtreehouse.com/library/introduction-to-html-and-css/adding-a-new-web-page/test-link-it-up-challenge)**

[2 objectives](https://teamtreehouse.com/library/introduction-to-html-and-css/adding-a-new-web-page/test-link-it-up-challenge)

#### **[Review: Adding a New Web Page](https://teamtreehouse.com/library/introduction-to-html-and-css/adding-a-new-web-page/review-adding-a-new-web-page)**

[5 questions](https://teamtreehouse.com/library/introduction-to-html-and-css/adding-a-new-web-page/review-adding-a-new-web-page)

## HTML Basics

## Getting Started with HTML

HTML is a markup language the browser uses to present content to users, like text, links, images and more. It's the basic component from which all websites and applications on the web are built.

 8 steps

#### **[What is HTML?](https://teamtreehouse.com/library/what-is-html)**

[4:06](https://teamtreehouse.com/library/what-is-html)

#### **[Global Structure of an HTML Document](https://teamtreehouse.com/library/global-structure-of-an-html-document)**

[5:36](https://teamtreehouse.com/library/global-structure-of-an-html-document)

#### **[Intro to HTML Review](https://teamtreehouse.com/library/html-basics-2/getting-started-with-html/intro-to-html-review)**

[6 questions](https://teamtreehouse.com/library/html-basics-2/getting-started-with-html/intro-to-html-review)

#### **[Headings and Paragraphs](https://teamtreehouse.com/library/headings-and-paragraphs)**

[5:26](https://teamtreehouse.com/library/headings-and-paragraphs)

#### **[Headings and Paragraphs Challenge](https://teamtreehouse.com/library/html-basics-2/getting-started-with-html/headings-and-paragraphs-challenge)**

[3 objectives](https://teamtreehouse.com/library/html-basics-2/getting-started-with-html/headings-and-paragraphs-challenge)

#### **[Creating Lists](https://teamtreehouse.com/library/creating-lists)**

[5:31](https://teamtreehouse.com/library/creating-lists)

#### **[Creating Links](https://teamtreehouse.com/library/creating-links)**

[6:29](https://teamtreehouse.com/library/creating-links)

#### **[Lists and Links Challenge](https://teamtreehouse.com/library/html-basics-2/getting-started-with-html/lists-and-links-challenge)**

[2 objectives](https://teamtreehouse.com/library/html-basics-2/getting-started-with-html/lists-and-links-challenge)

## Structuring Your Content

Learn to write semantic HTML and use elements that describe sections of content.

 8 steps

#### **[Semantic HTML: <header>, <footer> and <section>](https://teamtreehouse.com/library/semantic-html-header-footer-and-section)**

[7:29](https://teamtreehouse.com/library/semantic-html-header-footer-and-section)

#### **[Sectioning Content with <article>, <nav> and <aside>](https://teamtreehouse.com/library/sectioning-content-with-article-nav-and-aside)**

[4:23](https://teamtreehouse.com/library/sectioning-content-with-article-nav-and-aside)

#### **[Structuring Content Challenge](https://teamtreehouse.com/library/html-basics-2/structuring-your-content/structuring-content-challenge)**

[4 objectives](https://teamtreehouse.com/library/html-basics-2/structuring-your-content/structuring-content-challenge)

#### **[Marking Up a Blog Post](https://teamtreehouse.com/library/marking-up-a-blog-post)**

[6:33](https://teamtreehouse.com/library/marking-up-a-blog-post)

#### **[Grouping Content with <main> and <div>](https://teamtreehouse.com/library/grouping-content-with-main-and-div)**

[6:47](https://teamtreehouse.com/library/grouping-content-with-main-and-div)

#### **[Grouping Content Challenge](https://teamtreehouse.com/library/html-basics-2/structuring-your-content/grouping-content-challenge)**

[3 objectives](https://teamtreehouse.com/library/html-basics-2/structuring-your-content/grouping-content-challenge)

#### **[Using Multiple <header> and <footer> Elements](https://teamtreehouse.com/library/using-multiple-header-and-footer-elements)**

[3:51](https://teamtreehouse.com/library/using-multiple-header-and-footer-elements)

#### **[Structuring Your Content Review](https://teamtreehouse.com/library/html-basics-2/structuring-your-content/structuring-your-content-review)**

[7 questions](https://teamtreehouse.com/library/html-basics-2/structuring-your-content/structuring-your-content-review)

## Images, Text and Links

Learn to display images, work with file paths, and define text with special meaning.

 7 steps

#### **[Understanding File Paths](https://teamtreehouse.com/library/understanding-file-paths)**

[6:03](https://teamtreehouse.com/library/understanding-file-paths)

#### **[Adding Images to the Page](https://teamtreehouse.com/library/adding-images-to-the-page)**

[5:09](https://teamtreehouse.com/library/adding-images-to-the-page)

#### **[Captioning Images](https://teamtreehouse.com/library/captioning-images)**

[3:15](https://teamtreehouse.com/library/captioning-images)

#### **[Images and File Paths Challenge](https://teamtreehouse.com/library/html-basics-2/images-text-and-links/images-and-file-paths-challenge)**

[3 objectives](https://teamtreehouse.com/library/html-basics-2/images-text-and-links/images-and-file-paths-challenge)

#### **[Creating Breaks in Content](https://teamtreehouse.com/library/creating-breaks-in-content)**

[3:23](https://teamtreehouse.com/library/creating-breaks-in-content)

#### **[Add Meaning to Words with Text Level Elements](https://teamtreehouse.com/library/add-meaning-to-words-with-text-level-elements)**

[5:05](https://teamtreehouse.com/library/add-meaning-to-words-with-text-level-elements)

#### **[Text Level Elements Challenge](https://teamtreehouse.com/library/html-basics-2/images-text-and-links/text-level-elements-challenge)**

[3 objectives](https://teamtreehouse.com/library/html-basics-2/images-text-and-links/text-level-elements-challenge)

## Going Further with HTML

Push your HTML skills further by learning more about file paths and linking to web pages. You'll also learn to work with special HTML characters, comment your code, and explore tips and resources that will help you go forward with HTML.

 10 steps

#### **[Linking to Sections of a Web Page](https://teamtreehouse.com/library/linking-to-sections-of-a-web-page)**

[5:38](https://teamtreehouse.com/library/linking-to-sections-of-a-web-page)

#### **[Root-relative Paths](https://teamtreehouse.com/library/rootrelative-paths)**

[2:54](https://teamtreehouse.com/library/rootrelative-paths)

#### **[Links and Paths Challenge](https://teamtreehouse.com/library/html-basics-2/going-further-with-html/links-and-paths-challenge)**

[3 objectives](https://teamtreehouse.com/library/html-basics-2/going-further-with-html/links-and-paths-challenge)

#### **[Link to Email](https://teamtreehouse.com/library/link-to-email)**

[2:31](https://teamtreehouse.com/library/link-to-email)

#### **[HTML Entities and Reserved Characters](https://teamtreehouse.com/library/html-entities-and-reserved-characters)**

[4:36](https://teamtreehouse.com/library/html-entities-and-reserved-characters)

#### **[Email Links and Entities Challenge](https://teamtreehouse.com/library/html-basics-2/going-further-with-html/email-links-and-entities-challenge)**

[2 objectives](https://teamtreehouse.com/library/html-basics-2/going-further-with-html/email-links-and-entities-challenge)

#### **[Adding Developer Notes with HTML Comments](https://teamtreehouse.com/library/adding-developer-notes-with-html-comments)**

[2:04](https://teamtreehouse.com/library/adding-developer-notes-with-html-comments)

#### **[Working on a Website Project Locally](https://teamtreehouse.com/library/working-on-a-website-project-locally)**

[4:22](https://teamtreehouse.com/library/working-on-a-website-project-locally)

#### **[Next Steps](https://teamtreehouse.com/library/next-steps-7)**

[3:20](https://teamtreehouse.com/library/next-steps-7)

#### **[Going Further with HTML Review](https://teamtreehouse.com/library/html-basics-2/going-further-with-html/going-further-with-html-review)**

[6 questions](https://teamtreehouse.com/library/html-basics-2/going-further-with-html/going-further-with-html-review)

CSS BASICS

### **About this Course**

CSS (Cascading Style Sheets) is a style sheet language that describes the presentation of web pages. Whereas HTML is what forms the structure of a web page, CSS is what we use to style the HTML with colors, backgrounds, font sizes, layout, and more. As you'll soon learn, CSS is one of the core technologies for designing and building websites.

#### **What you'll learn**

* Basic Selectors
* Common Values and Units
* CSS Layout
* New CSS Features

## Getting Started with CSS

Get started with one of the core technologies for designing and building websites and applications. In this stage, you'll learn about the evolution of CSS, helpful resources, and how to add CSS to a page.

 8 steps

#### **[CSS Basics Overview](https://teamtreehouse.com/library/css-basics-overview)**

[2:19](https://teamtreehouse.com/library/css-basics-overview)

#### **[Introduction to CSS](https://teamtreehouse.com/library/introduction-to-css-6)**

[2:31](https://teamtreehouse.com/library/introduction-to-css-6)

#### **[CSS Resources](https://teamtreehouse.com/library/css-resources)**

[4:40](https://teamtreehouse.com/library/css-resources)

#### **[Intro to CSS Review](https://teamtreehouse.com/library/css-basics-2/getting-started-with-css/intro-to-css-review)**

[7 questions](https://teamtreehouse.com/library/css-basics-2/getting-started-with-css/intro-to-css-review)

#### **[Inline and Internal Styles](https://teamtreehouse.com/library/inline-and-internal-styles)**

[10:34](https://teamtreehouse.com/library/inline-and-internal-styles)

#### **[External Style Sheets](https://teamtreehouse.com/library/external-style-sheets)**

[6:39](https://teamtreehouse.com/library/external-style-sheets)

#### **[Importing Style Sheets with @import](https://teamtreehouse.com/library/importing-style-sheets-with-import)**

[4:14](https://teamtreehouse.com/library/importing-style-sheets-with-import)

#### **[Adding CSS Review](https://teamtreehouse.com/library/css-basics-2/getting-started-with-css/adding-css-review)**

[8 questions](https://teamtreehouse.com/library/css-basics-2/getting-started-with-css/adding-css-review)

## Basic Selectors

Selectors are one of the most important and powerful parts of CSS. In this stage, you'll learn the different ways we can target HTML elements with basic selectors.

 13 steps

#### **[Intro to Selectors](https://teamtreehouse.com/library/intro-to-selectors)**

[4:49](https://teamtreehouse.com/library/intro-to-selectors)

#### **[Type Selectors](https://teamtreehouse.com/library/type-selectors-2)**

[5:27](https://teamtreehouse.com/library/type-selectors-2)

#### **[Type Selectors](https://teamtreehouse.com/library/css-basics-2/basic-selectors/type-selectors-2)**

[4 objectives](https://teamtreehouse.com/library/css-basics-2/basic-selectors/type-selectors-2)

#### **[ID Selectors](https://teamtreehouse.com/library/id-selectors)**

[6:00](https://teamtreehouse.com/library/id-selectors)

#### **[Class Selectors](https://teamtreehouse.com/library/class-selectors)**

[6:06](https://teamtreehouse.com/library/class-selectors)

#### **[ID and Class Selectors](https://teamtreehouse.com/library/css-basics/basic-selectors/id-and-class-selectors)**

[6 objectives](https://teamtreehouse.com/library/css-basics/basic-selectors/id-and-class-selectors)

#### **[Reusing Classes](https://teamtreehouse.com/library/reusing-classes)**

[4:59](https://teamtreehouse.com/library/reusing-classes)

#### **[Descendant Selectors](https://teamtreehouse.com/library/descendant-selectors)**

[5:10](https://teamtreehouse.com/library/descendant-selectors)

#### **[Descendant Selectors](https://teamtreehouse.com/library/css-basics/basic-selectors/descendant-selectors)**

[3 objectives](https://teamtreehouse.com/library/css-basics/basic-selectors/descendant-selectors)

#### **[Pseudo-Classes](https://teamtreehouse.com/library/pseudoclasses-3)**

[8:44](https://teamtreehouse.com/library/pseudoclasses-3)

#### **[Pseudo-Classes](https://teamtreehouse.com/library/css-basics/basic-selectors/pseudoclasses-2)**

[3 objectives](https://teamtreehouse.com/library/css-basics/basic-selectors/pseudoclasses-2)

#### **[CSS Comments](https://teamtreehouse.com/library/css-comments)**

[5:20](https://teamtreehouse.com/library/css-comments)

#### **[Basic Selectors Review](https://teamtreehouse.com/library/css-basics-2/basic-selectors/basic-selectors-review)**

[9 questions](https://teamtreehouse.com/library/css-basics-2/basic-selectors/basic-selectors-review)

## Understanding Values and Units

Every CSS property has a set of values it can accept. Most properties accept keywords that literally describe a value. Many properties also accept numbers, functions, length values, or a URL. In this stage, you'll learn the common values and units CSS properties accept.

 14 steps

#### **[Common Data Types](https://teamtreehouse.com/library/common-data-types)**

[4:33](https://teamtreehouse.com/library/common-data-types)

#### **[Pixel Units](https://teamtreehouse.com/library/pixel-units)**

[4:11](https://teamtreehouse.com/library/pixel-units)

#### **[Percentages](https://teamtreehouse.com/library/percentages)**

[4:35](https://teamtreehouse.com/library/percentages)

#### **[Pixels and Percentages](https://teamtreehouse.com/library/css-basics/understanding-values-and-units/pixels-and-percentages)**

[3 objectives](https://teamtreehouse.com/library/css-basics/understanding-values-and-units/pixels-and-percentages)

#### **[Em Units](https://teamtreehouse.com/library/em-units)**

[6:50](https://teamtreehouse.com/library/em-units)

#### **[Rem Units](https://teamtreehouse.com/library/rem-units)**

[2:57](https://teamtreehouse.com/library/rem-units)

#### **[Em and Rem Units](https://teamtreehouse.com/library/css-basics/understanding-values-and-units/em-and-rem-units)**

[3 objectives](https://teamtreehouse.com/library/css-basics/understanding-values-and-units/em-and-rem-units)

#### **[Color Values](https://teamtreehouse.com/library/color-values-3)**

[9:21](https://teamtreehouse.com/library/color-values-3)

#### **[Color Values Review](https://teamtreehouse.com/library/css-basics-2/understanding-values-and-units/color-values-review)**

[5 questions](https://teamtreehouse.com/library/css-basics-2/understanding-values-and-units/color-values-review)

#### **[Text Styles](https://teamtreehouse.com/library/text-styles)**

[6:52](https://teamtreehouse.com/library/text-styles)

#### **[Font Properties](https://teamtreehouse.com/library/font-properties-2)**

[4:57](https://teamtreehouse.com/library/font-properties-2)

#### **[Line Height](https://teamtreehouse.com/library/line-height)**

[4:45](https://teamtreehouse.com/library/line-height)

#### **[Styling the Intro Paragraph](https://teamtreehouse.com/library/css-basics/understanding-values-and-units/styling-the-intro-paragraph)**

[5 objectives](https://teamtreehouse.com/library/css-basics/understanding-values-and-units/styling-the-intro-paragraph)

#### **[Fonts and Line Height Review](https://teamtreehouse.com/library/css-basics/understanding-values-and-units/fonts-and-line-height-review)**

[7 questions](https://teamtreehouse.com/library/css-basics/understanding-values-and-units/fonts-and-line-height-review)

## The Box Model

The box model is the basis of CSS layout because it dictates how elements are displayed and how they interact with each other.

 7 steps

#### **[The CSS Box Model](https://teamtreehouse.com/library/the-css-box-model)**

[4:05](https://teamtreehouse.com/library/the-css-box-model)

#### **[Padding](https://teamtreehouse.com/library/padding)**

[6:45](https://teamtreehouse.com/library/padding)

#### **[Borders](https://teamtreehouse.com/library/borders)**

[6:44](https://teamtreehouse.com/library/borders)

#### **[Margins](https://teamtreehouse.com/library/margins)**

[8:27](https://teamtreehouse.com/library/margins)

#### **[Padding, Borders, and Margins](https://teamtreehouse.com/library/css-basics/the-box-model/padding-borders-and-margins)**

[5 objectives](https://teamtreehouse.com/library/css-basics/the-box-model/padding-borders-and-margins)

#### **[Display Values](https://teamtreehouse.com/library/display-values)**

[9:07](https://teamtreehouse.com/library/display-values)

#### **[The Box Model Review](https://teamtreehouse.com/library/css-basics-2/the-box-model/the-box-model-review)**

[8 questions](https://teamtreehouse.com/library/css-basics-2/the-box-model/the-box-model-review)

## Basic Layout

In this stage, we'll continue styling our website with background properties and basic layout methods.

 10 steps

#### **[Width and Height Properties](https://teamtreehouse.com/library/width-and-height-properties)**

[6:49](https://teamtreehouse.com/library/width-and-height-properties)

#### **[box-sizing and max-width](https://teamtreehouse.com/library/boxsizing-and-maxwidth)**

[6:31](https://teamtreehouse.com/library/boxsizing-and-maxwidth)

#### **[Backgrounds: Color and Images](https://teamtreehouse.com/library/backgrounds-color-and-images)**

[5:47](https://teamtreehouse.com/library/backgrounds-color-and-images)

#### **[Backgrounds: Size and Position](https://teamtreehouse.com/library/backgrounds-size-and-position)**

[6:08](https://teamtreehouse.com/library/backgrounds-size-and-position)

#### **[Styling the "Wildlife" div with Background Properties](https://teamtreehouse.com/library/css-basics/basic-layout/styling-the-wildlife-div-with-background-properties)**

[5 objectives](https://teamtreehouse.com/library/css-basics/basic-layout/styling-the-wildlife-div-with-background-properties)

#### **[Floats](https://teamtreehouse.com/library/floats-4)**

[5:23](https://teamtreehouse.com/library/floats-4)

#### **[Clearing Floats](https://teamtreehouse.com/library/clearing-floats)**

[4:04](https://teamtreehouse.com/library/clearing-floats)

#### **[Floats](https://teamtreehouse.com/library/css-basics/basic-layout/-floats)**

[3 objectives](https://teamtreehouse.com/library/css-basics/basic-layout/-floats)

#### **[Lists](https://teamtreehouse.com/library/lists-5)**

[6:18](https://teamtreehouse.com/library/lists-5)

#### **[Basic Layout Review](https://teamtreehouse.com/library/css-basics-2/basic-layout/basic-layout-review)**

[8 questions](https://teamtreehouse.com/library/css-basics-2/basic-layout/basic-layout-review)

## Enhancing the Design With CSS

In this stage, we'll add the finishing touches to the page using CSS features that display rounded corners, box shadows, gradients and more. Then, we'll make sure our page looks good on all devices, with media queries.

 14 steps

#### **[Text Shadows](https://teamtreehouse.com/library/text-shadows)**

[5:43](https://teamtreehouse.com/library/text-shadows)

#### **[Box Shadows](https://teamtreehouse.com/library/box-shadows-3)**

[6:22](https://teamtreehouse.com/library/box-shadows-3)

#### **[Text Shadows and Box Shadows](https://teamtreehouse.com/library/css-basics/enhancing-the-design-with-css/text-shadows-and-box-shadows)**

[4 objectives](https://teamtreehouse.com/library/css-basics/enhancing-the-design-with-css/text-shadows-and-box-shadows)

#### **[Border Radius](https://teamtreehouse.com/library/border-radius-3)**

[6:39](https://teamtreehouse.com/library/border-radius-3)

#### **[Border Radius](https://teamtreehouse.com/library/css-basics/enhancing-the-design-with-css/border-radius)**

[1 objective](https://teamtreehouse.com/library/css-basics/enhancing-the-design-with-css/border-radius)

#### **[Gradients](https://teamtreehouse.com/library/gradients)**

[7:23](https://teamtreehouse.com/library/gradients)

#### **[Gradients: Color Stops](https://teamtreehouse.com/library/gradients-color-stops)**

[3:49](https://teamtreehouse.com/library/gradients-color-stops)

#### **[Gradients](https://teamtreehouse.com/library/css-basics/enhancing-the-design-with-css/gradients)**

[4 objectives](https://teamtreehouse.com/library/css-basics/enhancing-the-design-with-css/gradients)

#### **[Transparent Gradients and Multiple Backgrounds](https://teamtreehouse.com/library/transparent-gradients-and-multiple-backgrounds)**

[3:56](https://teamtreehouse.com/library/transparent-gradients-and-multiple-backgrounds)

#### **[Web Fonts with @font-face](https://teamtreehouse.com/library/web-fonts-with-fontface)**

[8:32](https://teamtreehouse.com/library/web-fonts-with-fontface)

#### **[Multiple Backgrounds and Web Fonts Review](https://teamtreehouse.com/library/css-basics/enhancing-the-design-with-css/multiple-backgrounds-and-web-fonts-review)**

[6 questions](https://teamtreehouse.com/library/css-basics/enhancing-the-design-with-css/multiple-backgrounds-and-web-fonts-review)

#### **[Media Query Basics](https://teamtreehouse.com/library/media-query-basics)**

[8:35](https://teamtreehouse.com/library/media-query-basics)

#### **[Adjusting the Layout with Media Queries](https://teamtreehouse.com/library/adjusting-the-layout-with-media-queries)**

[13:16](https://teamtreehouse.com/library/adjusting-the-layout-with-media-queries)

#### **[Media Queries](https://teamtreehouse.com/library/css-basics/enhancing-the-design-with-css/media-queries)**

[2 objectives](https://teamtreehouse.com/library/css-basics/enhancing-the-design-with-css/media-queries)

## Fundamental Concepts

Now that we've explored many of the core features of CSS, it's time to take this knowledge further by learning important fundamental concepts. In this stage, you'll learn all about the CSS cascade, inheritance, and helpful tips and tools to practice and retain what you’re learning.

 5 steps

#### **[The Cascade: Importance](https://teamtreehouse.com/library/the-cascade-importance)**

[2:26](https://teamtreehouse.com/library/the-cascade-importance)

#### **[The Cascade: Specificity and Source Order](https://teamtreehouse.com/library/the-cascade-specificity-and-source-order)**

[2:32](https://teamtreehouse.com/library/the-cascade-specificity-and-source-order)

#### **[Inheritance](https://teamtreehouse.com/library/inheritance-3)**

[2:27](https://teamtreehouse.com/library/inheritance-3)

#### **[Learning Tips and Tools](https://teamtreehouse.com/library/learning-tips-and-tools)**

[2:59](https://teamtreehouse.com/library/learning-tips-and-tools)

#### **[Fundamental Concepts Review](https://teamtreehouse.com/library/css-basics/fundamental-concepts/fundamental-concepts-review)**

[6 questions](https://teamtreehouse.com/library/css-basics/fundamental-concepts/fundamental-concepts-review)

Java Script Basics

### **About this Course**

JavaScript is a programming language that drives the web: from front-end user interface design, to backend server-side programming, you'll find JavaScript at every stage of a web site and web application. In this course, you'll learn the fundamental programming concepts and syntax of the JavaScript programming language.

#### **What you'll learn**

* What JavaScript is and where it is used
* Basic programming concepts like variables, data types and conditional statements
* What functions are and why they're useful
* How to troubleshoot programming problems
* The basic syntax of the JavaScript programming language

## Introducing JavaScript

Learn about the most popular scripting language on the planet. The language that drives millions of interactive web sites, powers fast web servers and can even be used to build desktop applications. In this stage, you'll create your first JavaScript program and learn how to troubleshoot your programming mistakes.

 14 steps

#### **[JavaScript Everywhere](https://teamtreehouse.com/library/javascript-everywhere)**

[3:22](https://teamtreehouse.com/library/javascript-everywhere)

#### **[About JavaScript Basics](https://teamtreehouse.com/library/javascript-basics/introducing-javascript/about-javascript-basics)**

[2:15](https://teamtreehouse.com/library/javascript-basics/introducing-javascript/about-javascript-basics)

#### **[Review About JavaScript](https://teamtreehouse.com/library/javascript-basics/introducing-javascript/review-about-javascript)**

[5 questions](https://teamtreehouse.com/library/javascript-basics/introducing-javascript/review-about-javascript)

#### **[Your First JavaScript Program](https://teamtreehouse.com/library/javascript-basics/introducing-javascript/your-first-javascript-program-2)**

[3:34](https://teamtreehouse.com/library/javascript-basics/introducing-javascript/your-first-javascript-program-2)

#### **[Your First JavaScript Program](https://teamtreehouse.com/library/javascript-basics/introducing-javascript/your-first-javascript-program)**

[1 objective](https://teamtreehouse.com/library/javascript-basics/introducing-javascript/your-first-javascript-program)

#### **[Where Does JavaScript Go?](https://teamtreehouse.com/library/where-does-javascript-go)**

[4:56](https://teamtreehouse.com/library/where-does-javascript-go)

#### **[Write Another Program](https://teamtreehouse.com/library/javascript-basics/introducing-javascript/write-another-program)**

[2 objectives](https://teamtreehouse.com/library/javascript-basics/introducing-javascript/write-another-program)

#### **[Link to an External Script](https://teamtreehouse.com/library/javascript-basics/introducing-javascript/link-to-an-external-script)**

[2 objectives](https://teamtreehouse.com/library/javascript-basics/introducing-javascript/link-to-an-external-script)

#### **[The JavaScript Console](https://teamtreehouse.com/library/the-javascript-console)**

[4:56](https://teamtreehouse.com/library/the-javascript-console)

#### **[Review Adding Scripts and Simple JavaScript Commands](https://teamtreehouse.com/library/javascript-basics/introducing-javascript/review-adding-scripts-and-simple-javascript-commands)**

[5 questions](https://teamtreehouse.com/library/javascript-basics/introducing-javascript/review-adding-scripts-and-simple-javascript-commands)

#### **[Using the Console](https://teamtreehouse.com/library/javascript-basics/introducing-javascript/using-the-console)**

[2 objectives](https://teamtreehouse.com/library/javascript-basics/introducing-javascript/using-the-console)

#### **[The Console Challenge](https://teamtreehouse.com/library/javascript-basics/introducing-javascript/the-console-challenge)**

[0:37](https://teamtreehouse.com/library/javascript-basics/introducing-javascript/the-console-challenge)

#### **[The Console Challenge Answer](https://teamtreehouse.com/library/javascript-basics/introducing-javascript/the-console-challenge-answer)**

[1:45](https://teamtreehouse.com/library/javascript-basics/introducing-javascript/the-console-challenge-answer)

#### **[Review Introducing JavaScript](https://teamtreehouse.com/library/javascript-basics/introducing-javascript/review-introducing-javascript)**

[5 questions](https://teamtreehouse.com/library/javascript-basics/introducing-javascript/review-introducing-javascript)

## Storing and Tracking Information with Variables

Learn how to use variables to store information that changes during a program, like the score in a game, or a sales total. You'll also learn about different data types in JavaScript like string, numbers and boolean values.

 18 steps

#### **[Introducing Variables](https://teamtreehouse.com/library/introducing-variables)**

[5:03](https://teamtreehouse.com/library/introducing-variables)

#### **[Create a Variable](https://teamtreehouse.com/library/javascript-basics/storing-and-tracking-information-with-variables/create-a-variable)**

[2 objectives](https://teamtreehouse.com/library/javascript-basics/storing-and-tracking-information-with-variables/create-a-variable)

#### **[Naming Variables](https://teamtreehouse.com/library/javascript-basics/storing-and-tracking-information-with-variables/naming-variables)**

[2:48](https://teamtreehouse.com/library/javascript-basics/storing-and-tracking-information-with-variables/naming-variables)

#### **[Review Creating and Naming Variables](https://teamtreehouse.com/library/javascript-basics/storing-and-tracking-information-with-variables/review-creating-and-naming-variables)**

[6 questions](https://teamtreehouse.com/library/javascript-basics/storing-and-tracking-information-with-variables/review-creating-and-naming-variables)

#### **[Strings and Numbers](https://teamtreehouse.com/library/strings-and-numbers)**

[2:56](https://teamtreehouse.com/library/strings-and-numbers)

#### **[Create a variable with a string](https://teamtreehouse.com/library/javascript-basics/storing-and-tracking-information-with-variables/create-a-variable-with-a-string)**

[2 objectives](https://teamtreehouse.com/library/javascript-basics/storing-and-tracking-information-with-variables/create-a-variable-with-a-string)

#### **[Spaces, tabs and new lines in JavaScript](https://teamtreehouse.com/library/javascript-basics/storing-and-tracking-information-with-variables/spaces-tabs-and-new-lines-in-javascript)**

[2:18](https://teamtreehouse.com/library/javascript-basics/storing-and-tracking-information-with-variables/spaces-tabs-and-new-lines-in-javascript)

#### **[Review Strings, Numbers and Spaces](https://teamtreehouse.com/library/javascript-basics/storing-and-tracking-information-with-variables/review-strings-numbers-and-spaces)**

[5 questions](https://teamtreehouse.com/library/javascript-basics/storing-and-tracking-information-with-variables/review-strings-numbers-and-spaces)

#### **[Capturing Visitor Input](https://teamtreehouse.com/library/capturing-visitor-input)**

[3:41](https://teamtreehouse.com/library/capturing-visitor-input)

#### **[Capturing Visitor Input and Writing It to the Page](https://teamtreehouse.com/library/javascript-basics/storing-and-tracking-information-with-variables/capturing-visitor-input-and-writing-it-to-the-page)**

[3 objectives](https://teamtreehouse.com/library/javascript-basics/storing-and-tracking-information-with-variables/capturing-visitor-input-and-writing-it-to-the-page)

#### **[Combining Strings](https://teamtreehouse.com/library/combining-strings-2)**

[4:48](https://teamtreehouse.com/library/combining-strings-2)

#### **[Combining Strings](https://teamtreehouse.com/library/javascript-basics/storing-and-tracking-information-with-variables/combining-strings)**

[3 objectives](https://teamtreehouse.com/library/javascript-basics/storing-and-tracking-information-with-variables/combining-strings)

#### **[Review Concatenation](https://teamtreehouse.com/library/javascript-basics/storing-and-tracking-information-with-variables/review-concatenation)**

[5 questions](https://teamtreehouse.com/library/javascript-basics/storing-and-tracking-information-with-variables/review-concatenation)

#### **[Working with Strings and Finding Help](https://teamtreehouse.com/library/javascript-basics/storing-and-tracking-information-with-variables/working-with-strings-and-finding-help)**

[7:33](https://teamtreehouse.com/library/javascript-basics/storing-and-tracking-information-with-variables/working-with-strings-and-finding-help)

#### **[Using String Methods](https://teamtreehouse.com/library/javascript-basics/storing-and-tracking-information-with-variables/using-string-methods)**

[2 objectives](https://teamtreehouse.com/library/javascript-basics/storing-and-tracking-information-with-variables/using-string-methods)

#### **[The Variable Challenge](https://teamtreehouse.com/library/javascript-basics/storing-and-tracking-information-with-variables/the-variable-challenge)**

[2:55](https://teamtreehouse.com/library/javascript-basics/storing-and-tracking-information-with-variables/the-variable-challenge)

#### **[The Variable Challenge Solution](https://teamtreehouse.com/library/javascript-basics/storing-and-tracking-information-with-variables/the-variable-challenge-solution)**

[3:51](https://teamtreehouse.com/library/javascript-basics/storing-and-tracking-information-with-variables/the-variable-challenge-solution)

#### **[Review JavaScript Variables](https://teamtreehouse.com/library/javascript-basics/storing-and-tracking-information-with-variables/review-javascript-variables)**

[5 questions](https://teamtreehouse.com/library/javascript-basics/storing-and-tracking-information-with-variables/review-javascript-variables)

## Working With Numbers

Numbers are everywhere in programming. You use them to track a player's score in a game, to calculate the cost of shipping a product, or just to count the number of times a "Like" button was clicked on a page. In this section of the course, you'll learn how to do basic math in JavaScript.

 16 steps

#### **[Numbers](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/numbers)**

[1:55](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/numbers)

#### **[Review Numbers](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/review-numbers)**

[5 questions](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/review-numbers)

#### **[Storing Numbers in Variables](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/storing-numbers-in-variables)**

[2 objectives](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/storing-numbers-in-variables)

#### **[Doing Math](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/doing-math)**

[4:32](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/doing-math)

#### **[Review Math](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/review-math)**

[6 questions](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/review-math)

#### **[Doing Math](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/doing-math-2)**

[3 objectives](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/doing-math-2)

#### **[Numbers and Strings](https://teamtreehouse.com/library/numbers-and-strings)**

[5:30](https://teamtreehouse.com/library/numbers-and-strings)

#### **[Numbers and Strings](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/numbers-and-strings-2)**

[1 objective](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/numbers-and-strings-2)

#### **[The Mad Libs Challenge Revisited](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/the-mad-libs-challenge-revisited)**

[3:34](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/the-mad-libs-challenge-revisited)

#### **[The Math Object](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/the-math-object)**

[3:28](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/the-math-object)

#### **[Review Numbers and the Math Object](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/review-numbers-and-the-math-object)**

[5 questions](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/review-numbers-and-the-math-object)

#### **[Using Math Methods](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/using-math-methods)**

[2 objectives](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/using-math-methods)

#### **[Create a random number](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/create-a-random-number)**

[6:32](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/create-a-random-number)

#### **[The Random Challenge](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/the-random-challenge)**

[0:43](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/the-random-challenge)

#### **[The Random Challenge Solution](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/the-random-challenge-solution)**

[4:37](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/the-random-challenge-solution)

#### **[Review Working with Numbers](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/review-working-with-numbers)**

[5 questions](https://teamtreehouse.com/library/javascript-basics/working-with-numbers/review-working-with-numbers)

## Making Decisions with Conditional Statements

Conditional statements let you control the "flow" of your program. They let you run different code based on conditions in your program.

 20 steps

#### **[Introducing Conditional Statements](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/introducing-conditional-statements)**

[7:57](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/introducing-conditional-statements)

#### **[Introducing Conditional Statements](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/introducing-conditional-statements-2)**

[3 objectives](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/introducing-conditional-statements-2)

#### **[Comparison Operators](https://teamtreehouse.com/library/comparison-operators-4)**

[6:06](https://teamtreehouse.com/library/comparison-operators-4)

#### **[Review Conditional Statements and Comparison Operators](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/review-conditional-statements-and-comparison-operators)**

[7 questions](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/review-conditional-statements-and-comparison-operators)

#### **[Using Comparison Operators](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/using-comparison-operators)**

[1 objective](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/using-comparison-operators)

#### **[Build a Random Number Guessing Game](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/build-a-random-number-guessing-game)**

[2:18](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/build-a-random-number-guessing-game)

#### **[Boolean Values](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/boolean-values)**

[4:43](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/boolean-values)

#### **[Booleans](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/booleans)**

[1 objective](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/booleans)

#### **[Programming Multiple Outcomes](https://teamtreehouse.com/library/programming-multiple-outcomes)**

[2:35](https://teamtreehouse.com/library/programming-multiple-outcomes)

#### **[A Basic If Statement](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/a-basic-if-statement)**

[1 objective](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/a-basic-if-statement)

#### **[Add an Else If Clause](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/add-an-else-if-clause)**

[1 objective](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/add-an-else-if-clause)

#### **[Add a Final Else Clause](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/add-a-final-else-clause)**

[1 objective](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/add-a-final-else-clause)

#### **[Improving the Random Number Guessing Game](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/improving-the-random-number-guessing-game)**

[3:45](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/improving-the-random-number-guessing-game)

#### **[Document Your Code With Comments](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/document-your-code-with-comments)**

[3:03](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/document-your-code-with-comments)

#### **[Review Else If Clauses and JavaScript Comments](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/review-else-if-clauses-and-javascript-comments)**

[5 questions](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/review-else-if-clauses-and-javascript-comments)

#### **[Combining Multiple Tests Into a Single Condition](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/combining-multiple-tests-into-a-single-condition)**

[7:12](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/combining-multiple-tests-into-a-single-condition)

#### **[Review Boolean Logic](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/review-boolean-logic)**

[6 questions](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/review-boolean-logic)

#### **[The Conditional Challenge](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/the-conditional-challenge)**

[0:53](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/the-conditional-challenge)

#### **[The Conditional Challenge Solution](https://teamtreehouse.com/library/the-conditional-challenge-solution)**

[5:02](https://teamtreehouse.com/library/the-conditional-challenge-solution)

#### **[Super Conditional Challenge](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/super-conditional-challenge)**

[1 objective](https://teamtreehouse.com/library/javascript-basics/making-decisions-with-conditional-statements/super-conditional-challenge)

## Creating Reusable Code with Functions

JavaScript functions are a powerful tool that let you create re-usable chunks of code. They make programming faster, easier and less error-prone. They are also one of the most important concepts in JavaScript programming.

 18 steps

#### **[Introducing Functions](https://teamtreehouse.com/library/introducing-functions-5)**

[7:37](https://teamtreehouse.com/library/introducing-functions-5)

#### **[Review: Introducing Functions](https://teamtreehouse.com/library/javascript-basics/creating-reusable-code-with-functions/review-introducing-functions)**

[5 questions](https://teamtreehouse.com/library/javascript-basics/creating-reusable-code-with-functions/review-introducing-functions)

#### **[Creating a Function](https://teamtreehouse.com/library/javascript-basics/creating-reusable-code-with-functions/creating-a-function)**

[3 objectives](https://teamtreehouse.com/library/javascript-basics/creating-reusable-code-with-functions/creating-a-function)

#### **[Functions Change the Flow of a Program](https://teamtreehouse.com/library/javascript-basics/creating-reusable-code-with-functions/functions-change-the-flow-of-a-program)**

[1:34](https://teamtreehouse.com/library/javascript-basics/creating-reusable-code-with-functions/functions-change-the-flow-of-a-program)

#### **[Getting Information From a Function](https://teamtreehouse.com/library/getting-information-from-a-function)**

[6:44](https://teamtreehouse.com/library/getting-information-from-a-function)

#### **[Review: Getting Information from Functions](https://teamtreehouse.com/library/javascript-basics/creating-reusable-code-with-functions/review-getting-information-from-functions)**

[5 questions](https://teamtreehouse.com/library/javascript-basics/creating-reusable-code-with-functions/review-getting-information-from-functions)

#### **[Returning a Value from a Function](https://teamtreehouse.com/library/javascript-basics/creating-reusable-code-with-functions/returning-a-value-from-a-function)**

[3 objectives](https://teamtreehouse.com/library/javascript-basics/creating-reusable-code-with-functions/returning-a-value-from-a-function)

#### **[Giving Information to Functions](https://teamtreehouse.com/library/giving-information-to-functions)**

[8:20](https://teamtreehouse.com/library/giving-information-to-functions)

#### **[Review: Giving Information to Functions](https://teamtreehouse.com/library/javascript-basics/creating-reusable-code-with-functions/review-giving-information-to-functions)**

[5 questions](https://teamtreehouse.com/library/javascript-basics/creating-reusable-code-with-functions/review-giving-information-to-functions)

#### **[Passing an Argument to a Function](https://teamtreehouse.com/library/javascript-basics/creating-reusable-code-with-functions/passing-an-argument-to-a-function)**

[2 objectives](https://teamtreehouse.com/library/javascript-basics/creating-reusable-code-with-functions/passing-an-argument-to-a-function)

#### **[Create a max() Function](https://teamtreehouse.com/library/javascript-basics/creating-reusable-code-with-functions/create-a-max-function)**

[2 objectives](https://teamtreehouse.com/library/javascript-basics/creating-reusable-code-with-functions/create-a-max-function)

#### **[Variable Scope](https://teamtreehouse.com/library/variable-scope)**

[3:38](https://teamtreehouse.com/library/variable-scope)

#### **[Review: Scope](https://teamtreehouse.com/library/javascript-basics/creating-reusable-code-with-functions/review-scope)**

[5 questions](https://teamtreehouse.com/library/javascript-basics/creating-reusable-code-with-functions/review-scope)

#### **[Random Number Challenge](https://teamtreehouse.com/library/javascript-basics/creating-reusable-code-with-functions/random-number-challenge)**

[0:53](https://teamtreehouse.com/library/javascript-basics/creating-reusable-code-with-functions/random-number-challenge)

#### **[Random Number Challenge Solution](https://teamtreehouse.com/library/javascript-basics/creating-reusable-code-with-functions/random-number-challenge-solution)**

[2:29](https://teamtreehouse.com/library/javascript-basics/creating-reusable-code-with-functions/random-number-challenge-solution)

#### **[Random Number Challenge, Part II](https://teamtreehouse.com/library/javascript-basics/creating-reusable-code-with-functions/random-number-challenge-part-ii)**

[2:18](https://teamtreehouse.com/library/javascript-basics/creating-reusable-code-with-functions/random-number-challenge-part-ii)

#### **[Random Number Challenge, Part II Solution](https://teamtreehouse.com/library/javascript-basics/creating-reusable-code-with-functions/random-number-challenge-part-ii-solution)**

[2:03](https://teamtreehouse.com/library/javascript-basics/creating-reusable-code-with-functions/random-number-challenge-part-ii-solution)

#### **[Review Creating Reusable Code with Functions](https://teamtreehouse.com/library/javascript-basics/creating-reusable-code-with-functions/review-creating-reusable-code-with-functions)**

[5 questions](https://teamtreehouse.com/library/javascript-basics/creating-reusable-code-with-functions/review-creating-reusable-code-with-functions)

HTML Forms

### **About this Course**

The web is a two-way communication medium. There’s lots of HTML elements for displaying data and producing output, and conversely, there’s also lots of HTML elements for accepting input. Accepting input from the user means creating web forms. In this course, we’ll learn about all the most important form elements that web professionals use on a daily basis.

#### **What you'll learn**

* Forms
* Input elements
* Select menus
* Radio buttons
* Checkboxes

## Form Basics

To learn about forms, we’re going to create a simple sign up form for an imaginary web app. Our form won’t actually submit anywhere, since that requires additional server-side code. However, we will learn about all the most important HTML form elements.

 9 steps

#### **[Overview of Forms](https://teamtreehouse.com/library/overview-of-forms)**

[1:37](https://teamtreehouse.com/library/overview-of-forms)

#### **[The Form Element](https://teamtreehouse.com/library/the-form-element)**

[3:11](https://teamtreehouse.com/library/the-form-element)

#### **[Create a Form Element](https://teamtreehouse.com/library/html-forms/form-basics/create-a-form-element)**

[3 objectives](https://teamtreehouse.com/library/html-forms/form-basics/create-a-form-element)

#### **[The Input Element](https://teamtreehouse.com/library/the-input-element)**

[5:30](https://teamtreehouse.com/library/the-input-element)

#### **[Create a Text Input](https://teamtreehouse.com/library/html-forms/form-basics/create-a-text-input)**

[4 objectives](https://teamtreehouse.com/library/html-forms/form-basics/create-a-text-input)

#### **[The Textarea Element](https://teamtreehouse.com/library/the-textarea-element)**

[2:08](https://teamtreehouse.com/library/the-textarea-element)

#### **[Create a Textarea](https://teamtreehouse.com/library/html-forms/form-basics/create-a-textarea)**

[5 objectives](https://teamtreehouse.com/library/html-forms/form-basics/create-a-textarea)

#### **[The Button Element](https://teamtreehouse.com/library/the-button-element)**

[2:06](https://teamtreehouse.com/library/the-button-element)

#### **[Create a Submit Button](https://teamtreehouse.com/library/html-forms/form-basics/create-a-submit-button)**

[5 objectives](https://teamtreehouse.com/library/html-forms/form-basics/create-a-submit-button)

## Organizing Forms

A form can be created with just a form element and some controls, but it's helpful to the user if the form is organized with labels and fieldset elements.

 4 steps

#### **[The Label Element](https://teamtreehouse.com/library/the-label-element)**

[4:05](https://teamtreehouse.com/library/the-label-element)

#### **[Add Labels](https://teamtreehouse.com/library/add-labels)**

[4 objectives](https://teamtreehouse.com/library/add-labels)

#### **[Fieldsets and Legends](https://teamtreehouse.com/library/fieldsets-and-legends)**

[3:39](https://teamtreehouse.com/library/fieldsets-and-legends)

#### **[Add Fieldsets and Legends](https://teamtreehouse.com/library/add-fieldsets-and-legends)**

[4 objectives](https://teamtreehouse.com/library/add-fieldsets-and-legends)

## Choosing Options

Sometimes when creating a form, it's better for the user to choose from predefined options rather than typing in text. This can be accomplished with select menus, radio buttons, and checkboxes.

 8 steps

#### **[Select Menus](https://teamtreehouse.com/library/select-menus)**

[6:40](https://teamtreehouse.com/library/select-menus)

#### **[Create a Select Menu](https://teamtreehouse.com/library/html-forms/choosing-options/create-a-select-menu)**

[4 objectives](https://teamtreehouse.com/library/html-forms/choosing-options/create-a-select-menu)

#### **[Radio Buttons](https://teamtreehouse.com/library/radio-buttons)**

[5:38](https://teamtreehouse.com/library/radio-buttons)

#### **[Create Radio Buttons](https://teamtreehouse.com/library/html-forms/choosing-options/create-radio-buttons)**

[5 objectives](https://teamtreehouse.com/library/html-forms/choosing-options/create-radio-buttons)

#### **[Checkboxes](https://teamtreehouse.com/library/checkboxes)**

[4:15](https://teamtreehouse.com/library/checkboxes)

#### **[Create Checkboxes](https://teamtreehouse.com/library/html-forms/choosing-options/create-checkboxes)**

[3 objectives](https://teamtreehouse.com/library/html-forms/choosing-options/create-checkboxes)

#### **[Going Further](https://teamtreehouse.com/library/html-forms/choosing-options/going-further)**

[1:20](https://teamtreehouse.com/library/html-forms/choosing-options/going-further)

#### **[HTML Forms Review](https://teamtreehouse.com/library/html-forms/choosing-options/html-forms-review)**

[10 questions](https://teamtreehouse.com/library/html-forms/choosing-options/html-forms-review)

Console Foundations

### **About this Course**

The console is an important skill for any developer. Many programs can only be used via a command line interface, and often the only access you have to a server will be over a command line interface. Once you are familiar with the basics of the console, you will be able to perform very powerful tasks quickly and easily.

#### **What you'll learn**

* Navigating directories
* Common commands
* File permissions

## Getting Started with the Console

The command line and console can be a scary thing to get started with. Once you understand the history of the command line, and what it's good for, you can get familiar very quickly. The command line provides you the ability to interact with your computer using text commands, often making actions that would be difficult with menus or mouse clicks simple.

 12 steps

#### **[Introduction](https://teamtreehouse.com/library/introduction-70)**

[5:39](https://teamtreehouse.com/library/introduction-70)

#### **[Introduction](https://teamtreehouse.com/library/console-foundations/getting-started-with-the-console/introduction-2)**

[3 questions](https://teamtreehouse.com/library/console-foundations/getting-started-with-the-console/introduction-2)

#### **[Running Commands](https://teamtreehouse.com/library/running-commands-2)**

[12:36](https://teamtreehouse.com/library/running-commands-2)

#### **[Running Commands](https://teamtreehouse.com/library/console-foundations/getting-started-with-the-console/running-commands-2)**

[3 questions](https://teamtreehouse.com/library/console-foundations/getting-started-with-the-console/running-commands-2)

#### **[Moving Around the Filesystem](https://teamtreehouse.com/library/moving-around-the-filesystem)**

[11:44](https://teamtreehouse.com/library/moving-around-the-filesystem)

#### **[Moving Around the Filesystem](https://teamtreehouse.com/library/console-foundations/getting-started-with-the-console/moving-around-the-filesystem-2)**

[3 questions](https://teamtreehouse.com/library/console-foundations/getting-started-with-the-console/moving-around-the-filesystem-2)

#### **[Reading Files](https://teamtreehouse.com/library/reading-files-2)**

[6:55](https://teamtreehouse.com/library/reading-files-2)

#### **[Reading Files](https://teamtreehouse.com/library/console-foundations/getting-started-with-the-console/reading-files-2)**

[3 questions](https://teamtreehouse.com/library/console-foundations/getting-started-with-the-console/reading-files-2)

#### **[Editing Files](https://teamtreehouse.com/library/editing-files-2)**

[3:35](https://teamtreehouse.com/library/editing-files-2)

#### **[Editing Files](https://teamtreehouse.com/library/console-foundations/getting-started-with-the-console/editing-files-2)**

[3 questions](https://teamtreehouse.com/library/console-foundations/getting-started-with-the-console/editing-files-2)

#### **[Moving and Deleting Files](https://teamtreehouse.com/library/moving-and-deleting-files-2)**

[11:30](https://teamtreehouse.com/library/moving-and-deleting-files-2)

#### **[Moving and Deleting Files](https://teamtreehouse.com/library/console-foundations/getting-started-with-the-console/moving-and-deleting-files-2)**

[4 questions](https://teamtreehouse.com/library/console-foundations/getting-started-with-the-console/moving-and-deleting-files-2)

## Users and Permissions

Almost all computers have the idea of user accounts. Along with that comes permissions which define which users can interact with the different files and programs on the computer. It’s important to know how to setup and manage users, and how permissions are applied to files and folders.

 8 steps

#### **[Creating Users](https://teamtreehouse.com/library/creating-users-2)**

[8:25](https://teamtreehouse.com/library/creating-users-2)

#### **[Creating Users](https://teamtreehouse.com/library/console-foundations/users-and-permissions/creating-users-2)**

[3 questions](https://teamtreehouse.com/library/console-foundations/users-and-permissions/creating-users-2)

#### **[File Permissions](https://teamtreehouse.com/library/file-permissions-2)**

[11:31](https://teamtreehouse.com/library/file-permissions-2)

#### **[File Permissions](https://teamtreehouse.com/library/console-foundations/users-and-permissions/file-permissions-2)**

[3 questions](https://teamtreehouse.com/library/console-foundations/users-and-permissions/file-permissions-2)

#### **[File Ownership](https://teamtreehouse.com/library/file-ownership-2)**

[4:28](https://teamtreehouse.com/library/file-ownership-2)

#### **[File Ownership](https://teamtreehouse.com/library/console-foundations/users-and-permissions/file-ownership-2)**

[3 questions](https://teamtreehouse.com/library/console-foundations/users-and-permissions/file-ownership-2)

#### **[Sudo](https://teamtreehouse.com/library/sudo-2)**

[8:03](https://teamtreehouse.com/library/sudo-2)

#### **[Sudo](https://teamtreehouse.com/library/console-foundations/users-and-permissions/sudo-2)**

[3 questions](https://teamtreehouse.com/library/console-foundations/users-and-permissions/sudo-2)

## Processes

A process is the building block of how our computers run programs. It represents an instance of a program running. You can run multiple instances of a single program by creating multiple processes. Anything that is running has a process, and understanding how to manage your processes will keep you in control of your computer.

 6 steps

#### **[Processes](https://teamtreehouse.com/library/processes-2)**

[9:26](https://teamtreehouse.com/library/processes-2)

#### **[Processes](https://teamtreehouse.com/library/console-foundations/processes/processes-2)**

[3 questions](https://teamtreehouse.com/library/console-foundations/processes/processes-2)

#### **[Pausing and Resuming](https://teamtreehouse.com/library/pausing-and-resuming-2)**

[6:21](https://teamtreehouse.com/library/pausing-and-resuming-2)

#### **[Pausing and Resuming](https://teamtreehouse.com/library/console-foundations/processes/pausing-and-resuming-2)**

[3 questions](https://teamtreehouse.com/library/console-foundations/processes/pausing-and-resuming-2)

#### **[Killing Processes](https://teamtreehouse.com/library/killing-processes-2)**

[9:39](https://teamtreehouse.com/library/killing-processes-2)

#### **[Killing Processes](https://teamtreehouse.com/library/console-foundations/processes/killing-processes-2)**

[3 questions](https://teamtreehouse.com/library/console-foundations/processes/killing-processes-2)

## Environment and Redirection

The environment is a general term that refers to a particular configuration of hardware or software. It defines where the computer should look for programs, where your important folders are, and other configuration data. We will look at how to manage your environment and how to do other useful things, like finding files on your computer.

 6 steps

#### **[Environment Variables](https://teamtreehouse.com/library/environment-variables-2)**

[16:53](https://teamtreehouse.com/library/environment-variables-2)

#### **[Environment Variables](https://teamtreehouse.com/library/console-foundations/environment-and-redirection/environment-variables-2)**

[4 questions](https://teamtreehouse.com/library/console-foundations/environment-and-redirection/environment-variables-2)

#### **[Find and Grep](https://teamtreehouse.com/library/find-and-grep-2)**

[9:31](https://teamtreehouse.com/library/find-and-grep-2)

#### **[Find and Grep](https://teamtreehouse.com/library/console-foundations/environment-and-redirection/find-and-grep-2)**

[4 questions](https://teamtreehouse.com/library/console-foundations/environment-and-redirection/find-and-grep-2)

#### **[Pipes and Redirection](https://teamtreehouse.com/library/pipes-and-redirection-2)**

[16:07](https://teamtreehouse.com/library/pipes-and-redirection-2)

#### **[Pipes and Redirection](https://teamtreehouse.com/library/console-foundations/environment-and-redirection/pipes-and-redirection-2)**

[4 questions](https://teamtreehouse.com/library/console-foundations/environment-and-redirection/pipes-and-redirection-2)

## Installing Software

A common thing you may do using the command line is installing and configuring software. There are two main ways you can install software from the command line. You can build the software from its source code files, or you can use a package manager to install software for you.

 4 steps

#### **[Building Software From Source](https://teamtreehouse.com/library/building-software-from-source)**

[12:24](https://teamtreehouse.com/library/building-software-from-source)

#### **[Building From Source](https://teamtreehouse.com/library/console-foundations/installing-software/building-from-source)**

[4 questions](https://teamtreehouse.com/library/console-foundations/installing-software/building-from-source)

#### **[Introduction to Package Managers](https://teamtreehouse.com/library/introduction-to-package-managers)**

[9:42](https://teamtreehouse.com/library/introduction-to-package-managers)

#### **[Package Managers](https://teamtreehouse.com/library/console-foundations/installing-software/package-managers)**

[4 questions](https://teamtreehouse.com/library/console-foundations/installing-software/package-managers)

Git Basics

### **About this Course**

If you’re serious about pursuing a career as a software developer or designer, at some point, you will need to learn a version control system. A VCS is an important, but sometimes overlooked, tool that is essential for keeping all but the most trivial projects on track. In this course we'll talk about what version control is and how it works before covering the basics of one of the most popular version control systems available today - Git. By the time you’re finished with the course, you’ll be ready to start using Git on your next project.

#### **What you'll learn**

* What Version Control Does
* How Version Control Works
* What Makes Git a Good Choice
* Using Git to Manage Basic Projects
* Working With GitHub and other Git Hosting Solutions

## Why Version Control Matters

One of the most essential tools a developer can master is version control, and one of the most widely-used version control systems available today is Git. But what makes Git popular? And why should you learn to use version control anyway? In this stage we’ll explore all the benefits of using version control (including: helping you deal with changing requirements, data loss, sharing and collaborating with others), as well as the qualities of Git that make it such a popular choice in the modern development world.

 6 steps

#### **[Introduction to Git Basics](https://teamtreehouse.com/library/git-basics/why-version-control-matters/introduction-to-git-basics)**

[1:37](https://teamtreehouse.com/library/git-basics/why-version-control-matters/introduction-to-git-basics)

#### **[Life Without Version Control](https://teamtreehouse.com/library/git-basics/why-version-control-matters/life-without-version-control)**

[5:35](https://teamtreehouse.com/library/git-basics/why-version-control-matters/life-without-version-control)

#### **[The Cowboy Coder's Code Corral](https://teamtreehouse.com/library/git-basics/why-version-control-matters/the-cowboy-coders-code-corral)**

[3 questions](https://teamtreehouse.com/library/git-basics/why-version-control-matters/the-cowboy-coders-code-corral)

#### **[How Version Control Works](https://teamtreehouse.com/library/git-basics/why-version-control-matters/how-version-control-works)**

[4:21](https://teamtreehouse.com/library/git-basics/why-version-control-matters/how-version-control-works)

#### **[Why Git?](https://teamtreehouse.com/library/git-basics/why-version-control-matters/why-git)**

[4:28](https://teamtreehouse.com/library/git-basics/why-version-control-matters/why-git)

#### **[Version Control Review](https://teamtreehouse.com/library/git-basics/why-version-control-matters/version-control-review)**

[5 questions](https://teamtreehouse.com/library/git-basics/why-version-control-matters/version-control-review)

## Getting Started With Git

So you understand what version control is, why you should use it, and why Git is a good VCS to learn. Great! Let’s get started. In this stage we’ll start playing with Git repositories and learn the basics of storing our changes.

 9 steps

#### **[Git Ready](https://teamtreehouse.com/library/git-basics/getting-started-with-git/git-ready)**

[1:02](https://teamtreehouse.com/library/git-basics/getting-started-with-git/git-ready)

#### **[Working With Git Repositories](https://teamtreehouse.com/library/git-basics/getting-started-with-git/working-with-git-repositories)**

[4:33](https://teamtreehouse.com/library/git-basics/getting-started-with-git/working-with-git-repositories)

#### **[Repository Basics](https://teamtreehouse.com/library/git-basics/getting-started-with-git/repository-basics)**

[1 objective](https://teamtreehouse.com/library/git-basics/getting-started-with-git/repository-basics)

#### **[Committing Changes](https://teamtreehouse.com/library/git-basics/getting-started-with-git/committing-changes)**

[6:40](https://teamtreehouse.com/library/git-basics/getting-started-with-git/committing-changes)

#### **[Commitment Therapy](https://teamtreehouse.com/library/git-basics/getting-started-with-git/commitment-therapy)**

[3 objectives](https://teamtreehouse.com/library/git-basics/getting-started-with-git/commitment-therapy)

#### **[The Staging Area](https://teamtreehouse.com/library/git-basics/getting-started-with-git/the-staging-area)**

[5:39](https://teamtreehouse.com/library/git-basics/getting-started-with-git/the-staging-area)

#### **[Staging Our Changes](https://teamtreehouse.com/library/git-basics/getting-started-with-git/staging-our-changes)**

[4 objectives](https://teamtreehouse.com/library/git-basics/getting-started-with-git/staging-our-changes)

#### **[Looking Back on What We've Done](https://teamtreehouse.com/library/git-basics/getting-started-with-git/looking-back-on-what-weve-done)**

[6:24](https://teamtreehouse.com/library/git-basics/getting-started-with-git/looking-back-on-what-weve-done)

#### **[An Old-Fashioned Git-Together](https://teamtreehouse.com/library/an-oldfashioned-gittogether)**

[11 objectives](https://teamtreehouse.com/library/an-oldfashioned-gittogether)

## Branches

Now that we know the basics of using Git, let’s look at a very important concept in Version Control: Branching. Branching allows you to conveniently work on multiple versions of your code at once, and Git makes branching really easy.

 5 steps

#### **[Branching Out](https://teamtreehouse.com/library/git-basics/branches/branching-out)**

[2:00](https://teamtreehouse.com/library/git-basics/branches/branching-out)

#### **[Beginning to Branch](https://teamtreehouse.com/library/git-basics/branches/beginning-to-branch)**

[5:55](https://teamtreehouse.com/library/git-basics/branches/beginning-to-branch)

#### **[Out on a Branch](https://teamtreehouse.com/library/out-on-a-branch)**

[5 objectives](https://teamtreehouse.com/library/out-on-a-branch)

#### **[Managing Our Branches](https://teamtreehouse.com/library/git-basics/branches/managing-our-branches)**

[1:44](https://teamtreehouse.com/library/git-basics/branches/managing-our-branches)

#### **[Branch Manager](https://teamtreehouse.com/library/branch-manager)**

[2 objectives](https://teamtreehouse.com/library/branch-manager)

## Merging

You might be working on multiple different branches of your code at once, but in most cases you’ll only have one final version of your product that will incorporate the changes from all of those branches. Now that we’ve branched out our code, how do we get all of those changes back together? Most version control systems provide a concept called merging that lets us combine our changes together.

 5 steps

#### **[Introduction to Merging](https://teamtreehouse.com/library/git-basics/merging/introduction-to-merging)**

[2:47](https://teamtreehouse.com/library/git-basics/merging/introduction-to-merging)

#### **[Basic Merging](https://teamtreehouse.com/library/git-basics/merging/basic-merging)**

[3:48](https://teamtreehouse.com/library/git-basics/merging/basic-merging)

#### **[Simple Merges](https://teamtreehouse.com/library/git-basics/merging/simple-merges)**

[4 objectives](https://teamtreehouse.com/library/git-basics/merging/simple-merges)

#### **[Merge Conflicts](https://teamtreehouse.com/library/git-basics/merging/merge-conflicts)**

[4:23](https://teamtreehouse.com/library/git-basics/merging/merge-conflicts)

#### **[Conflict Resolution](https://teamtreehouse.com/library/conflict-resolution)**

[2 objectives](https://teamtreehouse.com/library/conflict-resolution)

## Working With Remote Repositories

Version control systems are useful for working on personal projects, but where they really shine is when you use them to collaborate with others. The most common path for working with others is to store copies of your repositories remotely, and Git provides us with a set of tools we can use to interact with those remote repositories.

 7 steps

#### **[Working With Remotes](https://teamtreehouse.com/library/git-basics/working-with-remote-repositories/working-with-remotes)**

[3:01](https://teamtreehouse.com/library/git-basics/working-with-remote-repositories/working-with-remotes)

#### **[Remote Concepts](https://teamtreehouse.com/library/git-basics/working-with-remote-repositories/remote-concepts)**

[5 questions](https://teamtreehouse.com/library/git-basics/working-with-remote-repositories/remote-concepts)

#### **[Cloning](https://teamtreehouse.com/library/git-basics/working-with-remote-repositories/cloning)**

[4:55](https://teamtreehouse.com/library/git-basics/working-with-remote-repositories/cloning)

#### **[Pushing and Pulling](https://teamtreehouse.com/library/git-basics/working-with-remote-repositories/pushing-and-pulling)**

[8:20](https://teamtreehouse.com/library/git-basics/working-with-remote-repositories/pushing-and-pulling)

#### **[Remote Work](https://teamtreehouse.com/library/remote-work)**

[4 objectives](https://teamtreehouse.com/library/remote-work)

#### **[GitHub](https://teamtreehouse.com/library/git-basics/working-with-remote-repositories/github)**

[10:02](https://teamtreehouse.com/library/git-basics/working-with-remote-repositories/github)

#### **[Hosting Help](https://teamtreehouse.com/library/git-basics/working-with-remote-repositories/hosting-help)**

[5 questions](https://teamtreehouse.com/library/git-basics/working-with-remote-repositories/hosting-help)

## Workflows

Now that we know all the basic tools for managing projects with Git, it's time to put them all together. Let's take a look at how all the tools and ideas we've learned so far work together to make version control an important part of the day-to-day process of working on a project, and talk about some of the common ideas about "best practices" for using Git.

 4 steps

#### **[A Day in the Life of a Git Project](https://teamtreehouse.com/library/git-basics/workflows/a-day-in-the-life-of-a-git-project)**

[4:44](https://teamtreehouse.com/library/git-basics/workflows/a-day-in-the-life-of-a-git-project)

#### **[Workflow Puzzles](https://teamtreehouse.com/library/git-basics/workflows/workflow-puzzles)**

[5 questions](https://teamtreehouse.com/library/git-basics/workflows/workflow-puzzles)

#### **[Git-Flow](https://teamtreehouse.com/library/git-basics/workflows/gitflow)**

[6:32](https://teamtreehouse.com/library/git-basics/workflows/gitflow)

#### **[Using Git-Flow](https://teamtreehouse.com/library/git-basics/workflows/using-gitflow)**

[4 objectives](https://teamtreehouse.com/library/git-basics/workflows/using-gitflow)

Github Basics

### **About this Course**

GitHub is a collaboration platform built on top of a distributed version control system called Git and is the best place to share & collaborate on code. In this course, you will learn how to use the key features of GitHub to showcase your coding projects, work with others, and get into Open Source. First, learn how to navigate the site and explore open source software. Then, learn how to host your own personal projects and some best practices for developing code collaboratively. You will also cover how to use GitHub as a professional on a team and how to get started contributing to open source.

#### **What you'll learn**

* Create a new repository
* The different GitHub Tools
* Working as an individual
* Using GitHub on a team
* GitHub Open Source

## Hello, GitHub!

With over 11 million users and millions of projects, GitHub is quickly becoming the standard collaboration platform for software development. In this lesson you will learn why it’s so widely used, what it adds to Git, and how to get started participating in the world’s largest open source community. First, you will setup your profile & explore an open source project - also known as a repository. Then, you will learn how to use GitHub’s social networking features before creating your own repository.

 7 steps

#### **[Introduction to GitHub](https://teamtreehouse.com/library/introduction-to-github)**

[2:42](https://teamtreehouse.com/library/introduction-to-github)

#### **[Sign Me Up!](https://teamtreehouse.com/library/github-basics/-hello-github/sign-me-up)**

[2:17](https://teamtreehouse.com/library/github-basics/-hello-github/sign-me-up)

#### **[Search and Explore](https://teamtreehouse.com/library/github-basics/-hello-github/search-and-explore)**

[3:01](https://teamtreehouse.com/library/github-basics/-hello-github/search-and-explore)

#### **[Social Coding](https://teamtreehouse.com/library/github-basics/-hello-github/social-coding)**

[1:11](https://teamtreehouse.com/library/github-basics/-hello-github/social-coding)

#### **[Social Coding Review](https://teamtreehouse.com/library/github-basics/-hello-github/social-coding-review)**

[7 questions](https://teamtreehouse.com/library/github-basics/-hello-github/social-coding-review)

#### **[Create a Repository](https://teamtreehouse.com/library/github-basics/-hello-github/create-a-repository)**

[1:17](https://teamtreehouse.com/library/github-basics/-hello-github/create-a-repository)

#### **[GitHub Icons Review](https://teamtreehouse.com/library/github-basics/-hello-github/github-icons-review)**

[5 questions](https://teamtreehouse.com/library/github-basics/-hello-github/github-icons-review)

## Working By Yourself

While GitHub is known as a collaboration platform, there are several reasons why you would use it by yourself, including to practice using Git and as a code portfolio, which can be viewed by potential employers. In this stage, you will learn how to connect a local project with our newly created hosted repo. While you might not have anyone to collaborate with yet, you will practice the features and collaboration workflow - branching, pull requests, & fixing merge conflicts - that will create the foundation for working on a team or open source project later.

 9 steps

#### **[Push Your Project to GitHub](https://teamtreehouse.com/library/push-your-project-to-github)**

[5:49](https://teamtreehouse.com/library/push-your-project-to-github)

#### **[Push to GitHub Test](https://teamtreehouse.com/library/github-basics/working-by-yourself/push-to-github-test)**

[6 objectives](https://teamtreehouse.com/library/github-basics/working-by-yourself/push-to-github-test)

#### **[Using Issues](https://teamtreehouse.com/library/github-basics/working-by-yourself/-using-issues)**

[1:46](https://teamtreehouse.com/library/github-basics/working-by-yourself/-using-issues)

#### **[Mastering Markdown](https://teamtreehouse.com/library/github-basics/working-by-yourself/mastering-markdown)**

[3:12](https://teamtreehouse.com/library/github-basics/working-by-yourself/mastering-markdown)

#### **[Create a Branch](https://teamtreehouse.com/library/github-basics/working-by-yourself/create-a-branch)**

[3:40](https://teamtreehouse.com/library/github-basics/working-by-yourself/create-a-branch)

#### **[Create a Branch Test](https://teamtreehouse.com/library/github-basics/working-by-yourself/create-a-branch-test)**

[5 objectives](https://teamtreehouse.com/library/github-basics/working-by-yourself/create-a-branch-test)

#### **[Open a Pull Request](https://teamtreehouse.com/library/github-basics/working-by-yourself/open-a-pull-request)**

[3:24](https://teamtreehouse.com/library/github-basics/working-by-yourself/open-a-pull-request)

#### **[Conflict Resolution](https://teamtreehouse.com/library/github-basics/working-by-yourself/conflict-resolution)**

[8:54](https://teamtreehouse.com/library/github-basics/working-by-yourself/conflict-resolution)

#### **[Working By Yourself Review](https://teamtreehouse.com/library/github-basics/working-by-yourself/working-by-yourself-review)**

[4 questions](https://teamtreehouse.com/library/github-basics/working-by-yourself/working-by-yourself-review)

## Working on a Team

Once you have mastered GitHub on your own, you will learn how to best collaborate as part of a team. Expanding on the skills you learned in the last lesson, you will learn how to use team mentions, build great pull requests, and install integrations. This stage will give you the confidence you need to use GitHub at work as part of a larger software development team.

 7 steps

#### **[Creating an Organization](https://teamtreehouse.com/library/github-basics/working-on-a-team/creating-an-organization)**

[2:15](https://teamtreehouse.com/library/github-basics/working-on-a-team/creating-an-organization)

#### **[Creating a Team](https://teamtreehouse.com/library/github-basics/working-on-a-team/-creating-a-team)**

[2:52](https://teamtreehouse.com/library/github-basics/working-on-a-team/-creating-a-team)

#### **[Creating a Repository in your Organization](https://teamtreehouse.com/library/github-basics/working-on-a-team/creating-a-repository-in-your-organization)**

[3:29](https://teamtreehouse.com/library/github-basics/working-on-a-team/creating-a-repository-in-your-organization)

#### **[Creating a Repository Review](https://teamtreehouse.com/library/github-basics/working-on-a-team/creating-a-repository-review)**

[5 questions](https://teamtreehouse.com/library/github-basics/working-on-a-team/creating-a-repository-review)

#### **[Open a Pull Request for Your Team to Review](https://teamtreehouse.com/library/github-basics/working-on-a-team/open-a-pull-request-for-your-team-to-review)**

[3:43](https://teamtreehouse.com/library/github-basics/working-on-a-team/open-a-pull-request-for-your-team-to-review)

#### **[Workflow Demonstration](https://teamtreehouse.com/library/github-basics/working-on-a-team/workflow-demonstration)**

[4:33](https://teamtreehouse.com/library/github-basics/working-on-a-team/workflow-demonstration)

#### **[Working on a Team Review](https://teamtreehouse.com/library/github-basics/working-on-a-team/working-on-a-team-review)**

[5 questions](https://teamtreehouse.com/library/github-basics/working-on-a-team/working-on-a-team-review)

## Create a Web Presence on GitHub

One of the easiest ways to practice Git and GitHub is to host your own personal website or project website. With a personal site you can showcase your code portfolio and with a project site you can spin up a website to help promote your open source or side projects. In this lesson, you will learn how to push up HTML, CSS, and JavaScript files, and have a published site within minutes using GitHub pages.

 4 steps

#### **[Introduction to GitHub Pages](https://teamtreehouse.com/library/github-basics/create-a-web-presence-on-github/introduction-to-github-pages)**

[1:40](https://teamtreehouse.com/library/github-basics/create-a-web-presence-on-github/introduction-to-github-pages)

#### **[Create a Personal Website](https://teamtreehouse.com/library/github-basics/create-a-web-presence-on-github/create-a-personal-website)**

[2:27](https://teamtreehouse.com/library/github-basics/create-a-web-presence-on-github/create-a-personal-website)

#### **[Create a Project Website](https://teamtreehouse.com/library/github-basics/create-a-web-presence-on-github/create-a-project-website)**

[2:47](https://teamtreehouse.com/library/github-basics/create-a-web-presence-on-github/create-a-project-website)

#### **[GitHub Pages Review](https://teamtreehouse.com/library/github-basics/create-a-web-presence-on-github/github-pages-review)**

[5 questions](https://teamtreehouse.com/library/github-basics/create-a-web-presence-on-github/github-pages-review)

## Get Involved in Open Source

Now that you’re comfortable with GitHub, let’s start giving back to the Open Source community. Much of the software we use day to day is Open Source. By contributing back to Open Source, we help keep those projects running and also gain valuable experience in new & different projects. You will learn how to fork an open source project, improve something within that project, and be a good citizen in the Open Source community on GitHub.

 6 steps

#### **[Introduction to Open Source](https://teamtreehouse.com/library/github-basics/-get-involved-in-open-source/-introduction-to-open-source)**

[2:55](https://teamtreehouse.com/library/github-basics/-get-involved-in-open-source/-introduction-to-open-source)

#### **[How to Find an Open Source Project](https://teamtreehouse.com/library/how-to-find-an-open-source-project)**

[2:27](https://teamtreehouse.com/library/how-to-find-an-open-source-project)

#### **[Contributing to a Project with an Issue](https://teamtreehouse.com/library/github-basics/-get-involved-in-open-source/contributing-to-a-project-with-an-issue)**

[4:23](https://teamtreehouse.com/library/github-basics/-get-involved-in-open-source/contributing-to-a-project-with-an-issue)

#### **[Creating Your Own Fork of an Open-Source Repository](https://teamtreehouse.com/library/github-basics/-get-involved-in-open-source/-creating-your-own-fork-of-an-opensource-repository)**

[4:13](https://teamtreehouse.com/library/github-basics/-get-involved-in-open-source/-creating-your-own-fork-of-an-opensource-repository)

#### **[Contributing to a Project with a Pull Request](https://teamtreehouse.com/library/contributing-to-a-project-with-a-pull-request)**

[5:25](https://teamtreehouse.com/library/contributing-to-a-project-with-a-pull-request)

#### **[GitHub Basics: Review](https://teamtreehouse.com/library/github-basics/-get-involved-in-open-source/github-basics-review)**

[7 questions](https://teamtreehouse.com/library/github-basics/-get-involved-in-open-source/github-basics-review)

CSS Layout Basics

### **About this Course**

Learn to work with common layout and positioning methods used in web design. In this course, you'll get hands-on practice with basic CSS layout techniques like display modes and floats.

You'll use your new CSS layout skills to build the layout for a simple web page. Then learn to enhance the layout using relative, absolute and fixed positioning.

## Getting Started with CSS Layout

This stage covers layout tips and techniques used by web designers. You'll learn about CSS resets, layout wrappers, creating a sticky footer, and more.

 9 steps

#### **[What to Expect](https://teamtreehouse.com/library/css-layout-basics/getting-started-with-css-layout/what-to-expect)**

[1:37](https://teamtreehouse.com/library/css-layout-basics/getting-started-with-css-layout/what-to-expect)

#### **[CSS Reset with Normalize](https://teamtreehouse.com/library/css-reset-with-normalize)**

[5:24](https://teamtreehouse.com/library/css-reset-with-normalize)

#### **[Creating a Layout Wrapper](https://teamtreehouse.com/library/creating-a-layout-wrapper)**

[3:27](https://teamtreehouse.com/library/creating-a-layout-wrapper)

#### **[Why Vertical Margins Collapse](https://teamtreehouse.com/library/why-vertical-margins-collapse)**

[3:42](https://teamtreehouse.com/library/why-vertical-margins-collapse)

#### **[Centering Page Content and Creating a Full-width Header](https://teamtreehouse.com/library/centering-page-content-and-creating-a-fullwidth-header)**

[4:48](https://teamtreehouse.com/library/centering-page-content-and-creating-a-fullwidth-header)

#### **[Layout Wrapper Challenge](https://teamtreehouse.com/library/css-layout-basics/getting-started-with-css-layout/layout-wrapper-challenge)**

[2 objectives](https://teamtreehouse.com/library/css-layout-basics/getting-started-with-css-layout/layout-wrapper-challenge)

#### **[Using a Mobile First Approach](https://teamtreehouse.com/library/using-a-mobile-first-approach)**

[6:32](https://teamtreehouse.com/library/using-a-mobile-first-approach)

#### **[Creating a Sticky Footer](https://teamtreehouse.com/library/creating-a-sticky-footer)**

[5:12](https://teamtreehouse.com/library/creating-a-sticky-footer)

#### **[Getting Started with CSS Layout Review](https://teamtreehouse.com/library/css-layout-basics/getting-started-with-css-layout/getting-started-with-css-layout-review)**

[6 questions](https://teamtreehouse.com/library/css-layout-basics/getting-started-with-css-layout/getting-started-with-css-layout-review)

## Controlling Layout with CSS Display Modes

Learn to control elements in your layout using common CSS display modes like block, inline, and inline-block. Understanding the differences between these display settings will help take your CSS layouts to the next level.

 7 steps

#### **[Positioning Elements Side-By-Side with Inline Display](https://teamtreehouse.com/library/positioning-elements-sidebyside-with-inline-display)**

[7:29](https://teamtreehouse.com/library/positioning-elements-sidebyside-with-inline-display)

#### **[Using Inline-Block to Set Width, Height, Top and Bottom Margin and Padding](https://teamtreehouse.com/library/using-inlineblock-to-set-width-height-top-and-bottom-margin-and-padding)**

[5:12](https://teamtreehouse.com/library/using-inlineblock-to-set-width-height-top-and-bottom-margin-and-padding)

#### **[Removing Gaps Between Inline and Inline-Block Elements](https://teamtreehouse.com/library/removing-gaps-between-inline-and-inlineblock-elements)**

[2:57](https://teamtreehouse.com/library/removing-gaps-between-inline-and-inlineblock-elements)

#### **[CSS Display Modes Challenge](https://teamtreehouse.com/library/css-layout-basics/controlling-layout-with-css-display-modes/css-display-modes-challenge)**

[3 objectives](https://teamtreehouse.com/library/css-layout-basics/controlling-layout-with-css-display-modes/css-display-modes-challenge)

#### **[The Column Layout Challenge](https://teamtreehouse.com/library/css-layout-basics/controlling-layout-with-css-display-modes/the-column-layout-challenge)**

[1:04](https://teamtreehouse.com/library/css-layout-basics/controlling-layout-with-css-display-modes/the-column-layout-challenge)

#### **[The Column Layout Challenge Solution](https://teamtreehouse.com/library/the-column-layout-challenge-solution)**

[3:59](https://teamtreehouse.com/library/the-column-layout-challenge-solution)

#### **[CSS Display Modes](https://teamtreehouse.com/library/css-layout-basics/controlling-layout-with-css-display-modes/css-display-modes)**

[6 questions](https://teamtreehouse.com/library/css-layout-basics/controlling-layout-with-css-display-modes/css-display-modes)

## Page Layout with the Float Property

Learn how to use the float property for positioning and layout. You'll also learn about the default browser quirks you'll face when using floats and how to prevent them.

 8 steps

#### **[How Floats Work](https://teamtreehouse.com/library/how-floats-work)**

[1:31](https://teamtreehouse.com/library/how-floats-work)

#### **[Wrapping Text Around Images with Floats](https://teamtreehouse.com/library/wrapping-text-around-images-with-floats)**

[5:03](https://teamtreehouse.com/library/wrapping-text-around-images-with-floats)

#### **[Creating a Horizontal Navigation with Floats](https://teamtreehouse.com/library/creating-a-horizontal-navigation-with-floats)**

[5:07](https://teamtreehouse.com/library/creating-a-horizontal-navigation-with-floats)

#### **[Clearing and Containing Floats](https://teamtreehouse.com/library/clearing-and-containing-floats)**

[6:40](https://teamtreehouse.com/library/clearing-and-containing-floats)

#### **[Float Property Review](https://teamtreehouse.com/library/css-layout-basics/page-layout-with-the-float-property/float-property-review)**

[5 questions](https://teamtreehouse.com/library/css-layout-basics/page-layout-with-the-float-property/float-property-review)

#### **[The Float Challenge](https://teamtreehouse.com/library/css-layout-basics/page-layout-with-the-float-property/the-float-challenge)**

[1:22](https://teamtreehouse.com/library/css-layout-basics/page-layout-with-the-float-property/the-float-challenge)

#### **[The Float Challenge Solution](https://teamtreehouse.com/library/the-float-challenge-solution)**

[4:41](https://teamtreehouse.com/library/the-float-challenge-solution)

#### **[Footer Layout with Floats](https://teamtreehouse.com/library/css-layout-basics/page-layout-with-the-float-property/footer-layout-with-floats)**

[4 objectives](https://teamtreehouse.com/library/css-layout-basics/page-layout-with-the-float-property/footer-layout-with-floats)

## CSS Layout Project

Now it's time to challenge your new layout skills and put them to use by completing a CSS layout project.

 5 steps

#### **[Introducing the Project](https://teamtreehouse.com/library/css-layout-basics/css-layout-project/introducing-the-project)**

[4:17](https://teamtreehouse.com/library/css-layout-basics/css-layout-project/introducing-the-project)

#### **[Creating and Styling the Layout Containers](https://teamtreehouse.com/library/css-layout-basics/css-layout-project/creating-and-styling-the-layout-containers)**

[5:22](https://teamtreehouse.com/library/css-layout-basics/css-layout-project/creating-and-styling-the-layout-containers)

#### **[Adding Media Queries for Large Screens](https://teamtreehouse.com/library/css-layout-basics/css-layout-project/adding-media-queries-for-large-screens)**

[2:50](https://teamtreehouse.com/library/css-layout-basics/css-layout-project/adding-media-queries-for-large-screens)

#### **[Column Layout with Media Queries](https://teamtreehouse.com/library/css-layout-basics/css-layout-project/column-layout-with-media-queries)**

[4:33](https://teamtreehouse.com/library/css-layout-basics/css-layout-project/column-layout-with-media-queries)

#### **[CSS Layout Review](https://teamtreehouse.com/library/css-layout-basics/css-layout-project/css-layout-review)**

[5 questions](https://teamtreehouse.com/library/css-layout-basics/css-layout-project/css-layout-review)

## Positioning Page Content

Now that you know the basics of CSS layout, it's time to learn another important CSS layout technique. In this stage, you'll learn to position elements anywhere on the page with relative, absolute, and fixed positioning.

 7 steps

#### **[How Absolute Positioning Works](https://teamtreehouse.com/library/how-absolute-positioning-works)**

[5:36](https://teamtreehouse.com/library/how-absolute-positioning-works)

#### **[Positioning Elements Relative to Other Elements](https://teamtreehouse.com/library/positioning-elements-relative-to-other-elements)**

[3:46](https://teamtreehouse.com/library/positioning-elements-relative-to-other-elements)

#### **[Create an Image Caption with Absolute Positioning](https://teamtreehouse.com/library/css-layout-basics/positioning-page-content/create-an-image-caption-with-absolute-positioning)**

[5:38](https://teamtreehouse.com/library/css-layout-basics/positioning-page-content/create-an-image-caption-with-absolute-positioning)

#### **[CSS Positioning Challenge](https://teamtreehouse.com/library/css-layout-basics/positioning-page-content/css-positioning-challenge)**

[3 objectives](https://teamtreehouse.com/library/css-layout-basics/positioning-page-content/css-positioning-challenge)

#### **[Fixed Positioning](https://teamtreehouse.com/library/fixed-positioning)**

[4:34](https://teamtreehouse.com/library/fixed-positioning)

#### **[How Z-index Works](https://teamtreehouse.com/library/how-zindex-works)**

[5:41](https://teamtreehouse.com/library/how-zindex-works)

#### **[Positioning Page Content](https://teamtreehouse.com/library/css-layout-basics/positioning-page-content/positioning-page-content)**

[7 questions](https://teamtreehouse.com/library/css-layout-basics/positioning-page-content/positioning-page-content)

JavaScript Loops, Arrays and Objects

### **About this Course**

Storing, tracking and handling data is a large part of computer programming. Arrays provide a method for storing multiple values into a single variable. That makes an array a convenient way to pass around a list of items.

In this course, you'll learn how to create arrays and use loops to access their contents. You'll also learn some advanced methods that make working with arrays easier.

#### **What you'll learn**

* Loops
* Arrays
* Objects
* DRY Programming

## Simplify Repetitive Tasks with Loops

Loops are a way of repeating code -- they're very handy for repetitive tasks. Loops are frequently used to cycle through an array and perform an action on each item in the array.

 18 steps

#### **[Introducing Loops, Arrays and Objects](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/simplify-repetitive-tasks-with-loops/introducing-loops-arrays-and-objects)**

[1:29](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/simplify-repetitive-tasks-with-loops/introducing-loops-arrays-and-objects)

#### **[What are Loops?](https://teamtreehouse.com/library/what-are-loops)**

[7:52](https://teamtreehouse.com/library/what-are-loops)

#### **[Review Loops](https://teamtreehouse.com/library/javascript-arrays-and-loops/simplify-repetitive-tasks-with-loops/review-loops)**

[5 questions](https://teamtreehouse.com/library/javascript-arrays-and-loops/simplify-repetitive-tasks-with-loops/review-loops)

#### **[Complete the Loop](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/simplify-repetitive-tasks-with-loops/complete-the-loop)**

[1 objective](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/simplify-repetitive-tasks-with-loops/complete-the-loop)

#### **[Create a while Loop](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/simplify-repetitive-tasks-with-loops/create-a-while-loop)**

[1 objective](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/simplify-repetitive-tasks-with-loops/create-a-while-loop)

#### **[A Closer Look at Loop Conditions](https://teamtreehouse.com/library/a-closer-look-at-loop-conditions)**

[8:06](https://teamtreehouse.com/library/a-closer-look-at-loop-conditions)

#### **[A Closer Look At Loop Conditions](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/simplify-repetitive-tasks-with-loops/a-closer-look-at-loop-conditions)**

[1 objective](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/simplify-repetitive-tasks-with-loops/a-closer-look-at-loop-conditions)

#### **[`do ... while` Loops](https://teamtreehouse.com/library/do-while-loops-2)**

[6:57](https://teamtreehouse.com/library/do-while-loops-2)

#### **[Review while loops, do...while loops, and Loop Conditions](https://teamtreehouse.com/library/javascript-arrays-and-loops/simplify-repetitive-tasks-with-loops/review-while-loops-dowhile-loops-and-loop-conditions)**

[5 questions](https://teamtreehouse.com/library/javascript-arrays-and-loops/simplify-repetitive-tasks-with-loops/review-while-loops-dowhile-loops-and-loop-conditions)

#### **[Create a `do...while` loop](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/simplify-repetitive-tasks-with-loops/create-a-dowhile-loop)**

[1 objective](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/simplify-repetitive-tasks-with-loops/create-a-dowhile-loop)

#### **[For Loops](https://teamtreehouse.com/library/for-loops-2)**

[7:21](https://teamtreehouse.com/library/for-loops-2)

#### **[Create a for Loop](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/simplify-repetitive-tasks-with-loops/create-a-for-loop)**

[1 objective](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/simplify-repetitive-tasks-with-loops/create-a-for-loop)

#### **[Exiting Loops](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/simplify-repetitive-tasks-with-loops/exiting-loops)**

[4:05](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/simplify-repetitive-tasks-with-loops/exiting-loops)

#### **[Review For Loops and Loop Exiting](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/simplify-repetitive-tasks-with-loops/review-for-loops-and-loop-exiting)**

[6 questions](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/simplify-repetitive-tasks-with-loops/review-for-loops-and-loop-exiting)

#### **[The Refactor Challenge](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/simplify-repetitive-tasks-with-loops/the-refactor-challenge)**

[2:52](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/simplify-repetitive-tasks-with-loops/the-refactor-challenge)

#### **[The Refactor Challenge Solution](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/simplify-repetitive-tasks-with-loops/the-refactor-challenge-solution)**

[2:22](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/simplify-repetitive-tasks-with-loops/the-refactor-challenge-solution)

#### **[The Refactor Challenge, Part 2](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/simplify-repetitive-tasks-with-loops/the-refactor-challenge-part-2)**

[4:16](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/simplify-repetitive-tasks-with-loops/the-refactor-challenge-part-2)

#### **[Refactor Using a Loop](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/simplify-repetitive-tasks-with-loops/refactor-using-a-loop)**

[1 objective](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/simplify-repetitive-tasks-with-loops/refactor-using-a-loop)

## Tracking Multiple Items with Arrays

Arrays provide a way to store multiple pieces of information in a single thing. An array is basically a list of values: numbers, strings, boolean values or even other arrays.

 21 steps

#### **[What is an Array?](https://teamtreehouse.com/library/what-is-an-array)**

[4:51](https://teamtreehouse.com/library/what-is-an-array)

#### **[Create an Array](https://teamtreehouse.com/library/javascript-arrays-and-loops/tracking-multiple-items-with-arrays/create-an-array)**

[2 objectives](https://teamtreehouse.com/library/javascript-arrays-and-loops/tracking-multiple-items-with-arrays/create-an-array)

#### **[Accessing Items in an Array](https://teamtreehouse.com/library/accessing-items-in-an-array)**

[3:32](https://teamtreehouse.com/library/accessing-items-in-an-array)

#### **[Review Array Basics](https://teamtreehouse.com/library/javascript-arrays-and-loops/tracking-multiple-items-with-arrays/review-array-basics)**

[5 questions](https://teamtreehouse.com/library/javascript-arrays-and-loops/tracking-multiple-items-with-arrays/review-array-basics)

#### **[Using Array Indices](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-multiple-items-with-arrays/using-array-indices)**

[2 objectives](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-multiple-items-with-arrays/using-array-indices)

#### **[Adding Data to Arrays](https://teamtreehouse.com/library/adding-data-to-arrays)**

[8:02](https://teamtreehouse.com/library/adding-data-to-arrays)

#### **[Adding Items to an Array](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-multiple-items-with-arrays/adding-items-to-an-array)**

[2 objectives](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-multiple-items-with-arrays/adding-items-to-an-array)

#### **[Removing Items From Arrays](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-multiple-items-with-arrays/removing-items-from-arrays)**

[4:20](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-multiple-items-with-arrays/removing-items-from-arrays)

#### **[Review Adding and Removing Items from Arrays](https://teamtreehouse.com/library/javascript-arrays-and-loops/tracking-multiple-items-with-arrays/review-adding-and-removing-items-from-arrays)**

[5 questions](https://teamtreehouse.com/library/javascript-arrays-and-loops/tracking-multiple-items-with-arrays/review-adding-and-removing-items-from-arrays)

#### **[Removing Items from an Array](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-multiple-items-with-arrays/removing-items-from-an-array)**

[2 objectives](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-multiple-items-with-arrays/removing-items-from-an-array)

#### **[Using For Loops with Arrays](https://teamtreehouse.com/library/using-for-loops-with-arrays)**

[8:05](https://teamtreehouse.com/library/using-for-loops-with-arrays)

#### **[Iterating through an Array](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-multiple-items-with-arrays/iterating-through-an-array)**

[1 objective](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-multiple-items-with-arrays/iterating-through-an-array)

#### **[Useful Array Methods](https://teamtreehouse.com/library/useful-array-methods)**

[9:08](https://teamtreehouse.com/library/useful-array-methods)

#### **[Using Array Methods](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-multiple-items-with-arrays/using-array-methods)**

[1 objective](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-multiple-items-with-arrays/using-array-methods)

#### **[Two-Dimensional Arrays](https://teamtreehouse.com/library/twodimensional-arrays)**

[8:31](https://teamtreehouse.com/library/twodimensional-arrays)

#### **[Create a Two Dimensional Array](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-multiple-items-with-arrays/create-a-two-dimensional-array)**

[3 objectives](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-multiple-items-with-arrays/create-a-two-dimensional-array)

#### **[Build a Quiz Challenge, Part 1](https://teamtreehouse.com/library/build-a-quiz-challenge-part-1)**

[1:36](https://teamtreehouse.com/library/build-a-quiz-challenge-part-1)

#### **[Build a Quiz Challenge, Part 1 Solution](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-multiple-items-with-arrays/build-a-quiz-challenge-part-1-solution)**

[4:41](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-multiple-items-with-arrays/build-a-quiz-challenge-part-1-solution)

#### **[Build a Quiz Challenge, Part 2](https://teamtreehouse.com/library/build-a-quiz-challenge-part-2)**

[5:40](https://teamtreehouse.com/library/build-a-quiz-challenge-part-2)

#### **[Build a Quiz Challenge, Part 2 Solution](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-multiple-items-with-arrays/build-a-quiz-challenge-part-2-solution)**

[3:34](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-multiple-items-with-arrays/build-a-quiz-challenge-part-2-solution)

#### **[Review Array Methods, Iterating and Two-Dimensional Arrays](https://teamtreehouse.com/library/javascript-arrays-and-loops/tracking-multiple-items-with-arrays/review-array-methods-iterating-and-twodimensional-arrays)**

[6 questions](https://teamtreehouse.com/library/javascript-arrays-and-loops/tracking-multiple-items-with-arrays/review-array-methods-iterating-and-twodimensional-arrays)

## Tracking Data Using Objects

Objects are a large part of JavaScript programming. In this lesson, we'll look at one part of JavaScript objects: using objects to store key / value pairs. Objects provide a flexible way to keep track of data by associating a name with a particular value. They're used all the time in JavaScript programming and, using a particular object format called JSON, they're used to transmit data between web sites, databases and web pages.

 19 steps

#### **[The Object Literal](https://teamtreehouse.com/library/the-object-literal)**

[4:39](https://teamtreehouse.com/library/the-object-literal)

#### **[Create an Empty JavaScript Object](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-data-using-objects/create-an-empty-javascript-object)**

[1 objective](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-data-using-objects/create-an-empty-javascript-object)

#### **[Add Properties to an Object](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-data-using-objects/add-properties-to-an-object)**

[1 objective](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-data-using-objects/add-properties-to-an-object)

#### **[Accessing Object Properties](https://teamtreehouse.com/library/accessing-object-properties)**

[6:21](https://teamtreehouse.com/library/accessing-object-properties)

#### **[Review Object Basics](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-data-using-objects/review-object-basics)**

[5 questions](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-data-using-objects/review-object-basics)

#### **[Access and Set Object Properties](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-data-using-objects/access-and-set-object-properties)**

[2 objectives](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-data-using-objects/access-and-set-object-properties)

#### **[Using `for in` to Loop Through an Object's Properties](https://teamtreehouse.com/library/using-for-in-to-loop-through-an-objects-properties)**

[5:31](https://teamtreehouse.com/library/using-for-in-to-loop-through-an-objects-properties)

#### **[Accessing All of the Properties in an Object](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-data-using-objects/accessing-all-of-the-properties-in-an-object)**

[2 objectives](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-data-using-objects/accessing-all-of-the-properties-in-an-object)

#### **[Mixing and Matching Arrays and Objects](https://teamtreehouse.com/library/mixing-and-matching-arrays-and-objects)**

[3:17](https://teamtreehouse.com/library/mixing-and-matching-arrays-and-objects)

#### **[Create an Array of Objects](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-data-using-objects/create-an-array-of-objects)**

[2 objectives](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-data-using-objects/create-an-array-of-objects)

#### **[JavaScript Object Notation](https://teamtreehouse.com/library/javascript-object-notation)**

[3:44](https://teamtreehouse.com/library/javascript-object-notation)

#### **[Review `for in` Loops, Arrays of Objects and JSON](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-data-using-objects/review-for-in-loops-arrays-of-objects-and-json)**

[5 questions](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-data-using-objects/review-for-in-loops-arrays-of-objects-and-json)

#### **[The Build an Object Challenge, Part 1](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-data-using-objects/the-build-an-object-challenge-part-1)**

[1:08](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-data-using-objects/the-build-an-object-challenge-part-1)

#### **[The Build an Object Challenge, Part 1 Solution](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-data-using-objects/the-build-an-object-challenge-part-1-solution)**

[2:24](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-data-using-objects/the-build-an-object-challenge-part-1-solution)

#### **[The Build an Object Challenge, Part 2](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-data-using-objects/the-build-an-object-challenge-part-2)**

[1:23](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-data-using-objects/the-build-an-object-challenge-part-2)

#### **[The Build an Object Challenge, Part 2 Solution](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-data-using-objects/the-build-an-object-challenge-part-2-solution)**

[3:56](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-data-using-objects/the-build-an-object-challenge-part-2-solution)

#### **[The Student Record Search Challenge](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-data-using-objects/the-student-record-search-challenge)**

[1:26](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-data-using-objects/the-student-record-search-challenge)

#### **[The Student Record Search Challenge Solution](https://teamtreehouse.com/library/the-student-record-search-challenge-solution)**

[7:26](https://teamtreehouse.com/library/the-student-record-search-challenge-solution)

#### **[Review Loops, Arrays, and Objects](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-data-using-objects/review-loops-arrays-and-objects)**

[9 questions](https://teamtreehouse.com/library/javascript-loops-arrays-and-objects/tracking-data-using-objects/review-loops-arrays-and-objects)

CSS Selectors

### **About this Course**

In this short course, we're going to go beyond the basic selector concepts covered in CSS Basics. Besides the common ways to select elements with type, ID and class selectors, we're able to target elements based on their attributes, position in the HTML document, even their relation to other elements.

By the end of this course, you'll have gained a better understanding of the power and flexibility behind CSS selectors. You'll have a new set of valuable tools in your CSS toolkit to use on your next project.

#### **What you'll learn**

* Attribute selectors
* Advanced pseudo-classes
* Pseudo-elements

## Selectors - Beyond the Basics

In this stage, we'll expand on basic concepts by learning all about attribute selectors, DRY CSS, and combinators.

 8 steps

#### **[Course Overview](https://teamtreehouse.com/library/css-selectors/selectors-beyond-the-basics/course-overview)**

[1:49](https://teamtreehouse.com/library/css-selectors/selectors-beyond-the-basics/course-overview)

#### **[Attribute Selectors](https://teamtreehouse.com/library/attribute-selectors-2)**

[8:44](https://teamtreehouse.com/library/attribute-selectors-2)

#### **[Styling Form Buttons and Links with Attribute Selectors](https://teamtreehouse.com/library/styling-form-buttons-and-links-with-attribute-selectors)**

[3:34](https://teamtreehouse.com/library/styling-form-buttons-and-links-with-attribute-selectors)

#### **[Attribute Selectors Challenge](https://teamtreehouse.com/library/css-selectors/selectors-beyond-the-basics/attribute-selectors-challenge)**

[3 objectives](https://teamtreehouse.com/library/css-selectors/selectors-beyond-the-basics/attribute-selectors-challenge)

#### **[DRY CSS](https://teamtreehouse.com/library/dry-css)**

[10:51](https://teamtreehouse.com/library/dry-css)

#### **[Child, Adjacent, and General Sibling Combinators](https://teamtreehouse.com/library/child-adjacent-and-general-sibling-combinators)**

[9:03](https://teamtreehouse.com/library/child-adjacent-and-general-sibling-combinators)

#### **[Combinators Challenge](https://teamtreehouse.com/library/css-selectors/selectors-beyond-the-basics/combinators-challenge)**

[2 objectives](https://teamtreehouse.com/library/css-selectors/selectors-beyond-the-basics/combinators-challenge)

#### **[Attribute Selectors and Combinators Review](https://teamtreehouse.com/library/css-selectors/selectors-beyond-the-basics/attribute-selectors-and-combinators-review)**

[5 questions](https://teamtreehouse.com/library/css-selectors/selectors-beyond-the-basics/attribute-selectors-and-combinators-review)

## Going Further with Attribute Selectors and Pseudo-Classes

Learn how to select elements without having to write extra classes or IDs in the markup. Target elements based on specific pieces of HTML attributes, user interaction states, or their position on the page.

 8 steps

#### **[:first-child and :last-child](https://teamtreehouse.com/library/firstchild-and-lastchild)**

[4:15](https://teamtreehouse.com/library/firstchild-and-lastchild)

#### **[:first-child and :last-child Challenge](https://teamtreehouse.com/library/css-selectors/going-further-with-attribute-selectors-and-pseudoclasses/firstchild-and-lastchild-challenge)**

[2 objectives](https://teamtreehouse.com/library/css-selectors/going-further-with-attribute-selectors-and-pseudoclasses/firstchild-and-lastchild-challenge)

#### **[:only-child and :empty](https://teamtreehouse.com/library/onlychild-and-empty)**

[4:58](https://teamtreehouse.com/library/onlychild-and-empty)

#### **[Substring Matching Attribute Selectors - "Begins With" and "Ends With"](https://teamtreehouse.com/library/substring-matching-attribute-selectors-begins-with-and-ends-with)**

[8:19](https://teamtreehouse.com/library/substring-matching-attribute-selectors-begins-with-and-ends-with)

#### **[Substring Matching Attribute Selectors - "Contains"](https://teamtreehouse.com/library/substring-matching-attribute-selectors-contains)**

[6:44](https://teamtreehouse.com/library/substring-matching-attribute-selectors-contains)

#### **[Substring Matching Attribute Selectors Challenge](https://teamtreehouse.com/library/css-selectors/going-further-with-attribute-selectors-and-pseudoclasses/substring-matching-attribute-selectors-challenge)**

[3 objectives](https://teamtreehouse.com/library/css-selectors/going-further-with-attribute-selectors-and-pseudoclasses/substring-matching-attribute-selectors-challenge)

#### **[Element States Pseudo-Classes](https://teamtreehouse.com/library/element-states-pseudoclasses)**

[6:20](https://teamtreehouse.com/library/element-states-pseudoclasses)

#### **[Structural and Element States Pseudo-Classes Review](https://teamtreehouse.com/library/css-selectors/going-further-with-attribute-selectors-and-pseudoclasses/structural-and-element-states-pseudoclasses-review)**

[5 questions](https://teamtreehouse.com/library/css-selectors/going-further-with-attribute-selectors-and-pseudoclasses/structural-and-element-states-pseudoclasses-review)

## Advanced Selectors

In this stage, we'll uncover the power behind many of the more advanced CSS selectors. Learn how to write selectors with simple expressions to target a combination of elements. We'll also use special selectors called pseudo-elements to insert virtual elements and content into our page.

 11 steps

#### **[:nth-child](https://teamtreehouse.com/library/nthchild)**

[8:00](https://teamtreehouse.com/library/nthchild)

#### **[:nth-of-type](https://teamtreehouse.com/library/nthoftype)**

[4:30](https://teamtreehouse.com/library/nthoftype)

#### **[:nth Pseudo-Class Challenge](https://teamtreehouse.com/library/css-selectors/advanced-selectors/nth-pseudoclass-challenge)**

[3 objectives](https://teamtreehouse.com/library/css-selectors/advanced-selectors/nth-pseudoclass-challenge)

#### **[:nth Pseudo-Class Challenge - Pt. 2](https://teamtreehouse.com/library/css-selectors/advanced-selectors/nth-pseudoclass-challenge-pt-2)**

[1 objective](https://teamtreehouse.com/library/css-selectors/advanced-selectors/nth-pseudoclass-challenge-pt-2)

#### **[:root and :target](https://teamtreehouse.com/library/root-and-target)**

[5:12](https://teamtreehouse.com/library/root-and-target)

#### **[:not() – The Negation Pseudo-Class](https://teamtreehouse.com/library/not-the-negation-pseudoclass)**

[4:46](https://teamtreehouse.com/library/not-the-negation-pseudoclass)

#### **[Pseudo-Elements - ::first-line and ::first-letter](https://teamtreehouse.com/library/pseudoelements-firstline-and-firstletter)**

[5:00](https://teamtreehouse.com/library/pseudoelements-firstline-and-firstletter)

#### **[Pseudo-Elements - ::before and ::after](https://teamtreehouse.com/library/pseudoelements-before-and-after)**

[8:13](https://teamtreehouse.com/library/pseudoelements-before-and-after)

#### **[The attr() CSS Function](https://teamtreehouse.com/library/the-attr-css-function)**

[6:32](https://teamtreehouse.com/library/the-attr-css-function)

#### **[Pseudo-Elements Challenge](https://teamtreehouse.com/library/css-selectors/advanced-selectors/pseudoelements-challenge)**

[4 objectives](https://teamtreehouse.com/library/css-selectors/advanced-selectors/pseudoelements-challenge)

#### **[Advanced Selectors Review](https://teamtreehouse.com/library/css-selectors/advanced-selectors/advanced-selectors-review-2)**

[6 questions](https://teamtreehouse.com/library/css-selectors/advanced-selectors/advanced-selectors-review-2)

JavaScript and the DOM

### **About this Course**

JavaScript lets you create interactive web pages which can respond to a user's actions. In this course, you'll learn how to bring web pages to life using the power of JavaScript.

#### **What you'll learn**

* What is the DOM?
* Making Changes to the DOM
* Responding to User Interaction
* Travelling Through the DOM (Traversal)

## The Browser Environment

The environment that JavaScript runs in — like a browser, or a server, or even an embedded computer — has a fundamental effect on what it can do. In this stage we'll explore the browser environment, and see how JavaScript can change a webpage right before our eyes.

 5 steps

#### **[Welcome and Overview](https://teamtreehouse.com/library/welcome-and-overview)**

[4:22](https://teamtreehouse.com/library/welcome-and-overview)

#### **[Thinking Globally](https://teamtreehouse.com/library/thinking-globally)**

[6:42](https://teamtreehouse.com/library/thinking-globally)

#### **[What is the DOM?](https://teamtreehouse.com/library/what-is-the-dom)**

[2:07](https://teamtreehouse.com/library/what-is-the-dom)

#### **[Recap](https://teamtreehouse.com/library/recap-2)**

[1:37](https://teamtreehouse.com/library/recap-2)

#### **[The Browser Environment Review](https://teamtreehouse.com/library/javascript-and-the-dom-2/the-browser-environment/the-browser-environment-review)**

[5 questions](https://teamtreehouse.com/library/javascript-and-the-dom-2/the-browser-environment/the-browser-environment-review)

### **45%**

## Getting a Handle on the DOM

The first step of making a web page interactive is grabbing ahold of elements you want the user to interact with. This is called selection. There are a number of ways to select elements on a web page. Let's explore those you are likely to use most often.

 11 steps

#### **[A Simple Example](https://teamtreehouse.com/library/a-simple-example)**

[4:12](https://teamtreehouse.com/library/a-simple-example)

#### **[Select a Page Element By Its ID](https://teamtreehouse.com/library/select-a-page-element-by-its-id)**

[5:59](https://teamtreehouse.com/library/select-a-page-element-by-its-id)

#### **[Selecting by Id](https://teamtreehouse.com/library/javascript-and-the-dom-2/getting-a-handle-on-the-dom/selecting-by-id)**

[2 objectives](https://teamtreehouse.com/library/javascript-and-the-dom-2/getting-a-handle-on-the-dom/selecting-by-id)

#### **[Select All Elements of a Particular Type](https://teamtreehouse.com/library/select-all-elements-of-a-particular-type)**

[6:08](https://teamtreehouse.com/library/select-all-elements-of-a-particular-type)

#### **[Selecting Elements with the Same Class Name document.getElementsByClassName()](https://teamtreehouse.com/library/selecting-elements-with-the-same-class-name)**

[2:48](https://teamtreehouse.com/library/selecting-elements-with-the-same-class-name)

#### **[Selection Review](https://teamtreehouse.com/library/javascript-and-the-dom-2/getting-a-handle-on-the-dom/selection-review)**

[5 questions](https://teamtreehouse.com/library/javascript-and-the-dom-2/getting-a-handle-on-the-dom/selection-review)

#### **[Using CSS Queries to Select Page Elements](https://teamtreehouse.com/library/using-css-queries-to-select-page-elements)**

[4:50](https://teamtreehouse.com/library/using-css-queries-to-select-page-elements)

#### **[Selecting Multiple Elements](https://teamtreehouse.com/library/javascript-and-the-dom-2/getting-a-handle-on-the-dom/selecting-multiple-elements)**

[1 objective](https://teamtreehouse.com/library/javascript-and-the-dom-2/getting-a-handle-on-the-dom/selecting-multiple-elements)

#### **[Learning More](https://teamtreehouse.com/library/learning-more)**

[3:48](https://teamtreehouse.com/library/learning-more)

#### **[DOM Selection - More Review](https://teamtreehouse.com/library/javascript-and-the-dom-2/getting-a-handle-on-the-dom/dom-selection-more-review)**

[4 questions](https://teamtreehouse.com/library/javascript-and-the-dom-2/getting-a-handle-on-the-dom/dom-selection-more-review)

#### **[Practice Selecting Elements](https://teamtreehouse.com/library/javascript-and-the-dom-2/getting-a-handle-on-the-dom/practice-selecting-elements)**

[3 objectives](https://teamtreehouse.com/library/javascript-and-the-dom-2/getting-a-handle-on-the-dom/practice-selecting-elements)

## Making Changes to the DOM

Once we've selected an element in the DOM, we can read or affect it. We can replace or change the display of text, for example. Or we can create new nodes and insert them into the DOM. Let's learn about and get some practice with some of these actions.

 11 steps

#### **[Getting and Setting Text with textContent and innerHTML](https://teamtreehouse.com/library/getting-and-setting-text-with-textcontent-and-innerhtml)**

[6:58](https://teamtreehouse.com/library/getting-and-setting-text-with-textcontent-and-innerhtml)

#### **[Changing Element Attributes](https://teamtreehouse.com/library/changing-element-attributes)**

[2:56](https://teamtreehouse.com/library/changing-element-attributes)

#### **[Modifying Elements](https://teamtreehouse.com/library/javascript-and-the-dom-2/making-changes-to-the-dom/modifying-elements)**

[2 objectives](https://teamtreehouse.com/library/javascript-and-the-dom-2/making-changes-to-the-dom/modifying-elements)

#### **[Styling Elements](https://teamtreehouse.com/library/styling-elements)**

[9:09](https://teamtreehouse.com/library/styling-elements)

#### **[Creating New DOM Elements](https://teamtreehouse.com/library/creating-new-dom-elements)**

[4:41](https://teamtreehouse.com/library/creating-new-dom-elements)

#### **[Style and Element Creation](https://teamtreehouse.com/library/javascript-and-the-dom-2/making-changes-to-the-dom/style-and-element-creation)**

[5 questions](https://teamtreehouse.com/library/javascript-and-the-dom-2/making-changes-to-the-dom/style-and-element-creation)

#### **[Appending Nodes](https://teamtreehouse.com/library/appending-nodes)**

[3:33](https://teamtreehouse.com/library/appending-nodes)

#### **[DOM Manipulation](https://teamtreehouse.com/library/javascript-and-the-dom-2/making-changes-to-the-dom/dom-manipulation)**

[3 objectives](https://teamtreehouse.com/library/javascript-and-the-dom-2/making-changes-to-the-dom/dom-manipulation)

#### **[Removing Nodes](https://teamtreehouse.com/library/removing-nodes)**

[3:46](https://teamtreehouse.com/library/removing-nodes)

#### **[Removing an Element from the DOM](https://teamtreehouse.com/library/javascript-and-the-dom-2/making-changes-to-the-dom/removing-an-element-from-the-dom)**

[3 objectives](https://teamtreehouse.com/library/javascript-and-the-dom-2/making-changes-to-the-dom/removing-an-element-from-the-dom)

#### **[Appending and Removing Nodes](https://teamtreehouse.com/library/javascript-and-the-dom-2/making-changes-to-the-dom/appending-and-removing-nodes)**

[5 questions](https://teamtreehouse.com/library/javascript-and-the-dom-2/making-changes-to-the-dom/appending-and-removing-nodes)

## Responding to User Interaction

Now we'll get to "teach" an element to behave a certain way when a user interacts with it. For example, we could have a form field turn red if a user enters invalid text. Or a menu could appear if a user clicks on the menu bar. Let's look at these and other behaviors we can set up on a web page.

 10 steps

#### **[What is an Event?](https://teamtreehouse.com/library/what-is-an-event)**

[2:05](https://teamtreehouse.com/library/what-is-an-event)

#### **[Functions as Parameters](https://teamtreehouse.com/library/functions-as-parameters)**

[4:27](https://teamtreehouse.com/library/functions-as-parameters)

#### **[Delaying Execution with setTimeout()](https://teamtreehouse.com/library/delaying-execution-with-settimeout)**

[2:35](https://teamtreehouse.com/library/delaying-execution-with-settimeout)

#### **[Events and Functions as Parameters Review](https://teamtreehouse.com/library/javascript-and-the-dom-2/responding-to-user-interaction/events-and-functions-as-parameters-review)**

[5 questions](https://teamtreehouse.com/library/javascript-and-the-dom-2/responding-to-user-interaction/events-and-functions-as-parameters-review)

#### **[Listening for Events with addEventListener()](https://teamtreehouse.com/library/listening-for-events-with-addeventlistener)**

[7:49](https://teamtreehouse.com/library/listening-for-events-with-addeventlistener)

#### **[Adding an Event Listener](https://teamtreehouse.com/library/javascript-and-the-dom-2/responding-to-user-interaction/adding-an-event-listener)**

[3 objectives](https://teamtreehouse.com/library/javascript-and-the-dom-2/responding-to-user-interaction/adding-an-event-listener)

#### **[Event Bubbling and Delegation](https://teamtreehouse.com/library/event-bubbling-and-delegation)**

[4:05](https://teamtreehouse.com/library/event-bubbling-and-delegation)

#### **[Event Listening, Bubbling and Delegation](https://teamtreehouse.com/library/javascript-and-the-dom-2/responding-to-user-interaction/event-listening-bubbling-and-delegation)**

[5 questions](https://teamtreehouse.com/library/javascript-and-the-dom-2/responding-to-user-interaction/event-listening-bubbling-and-delegation)

#### **[The Event Object](https://teamtreehouse.com/library/the-event-object-2)**

[6:45](https://teamtreehouse.com/library/the-event-object-2)

#### **[Event Delegation](https://teamtreehouse.com/library/javascript-and-the-dom-2/responding-to-user-interaction/event-delegation)**

[1 objective](https://teamtreehouse.com/library/javascript-and-the-dom-2/responding-to-user-interaction/event-delegation)

## Traversing the DOM

You have your hands on one element, but you want to grab another one nearby. You could go all the way back out to the document and call to it from there, but chances are your node already has a reference to it. Let's learn how to get around in, or traverse, the DOM.

 11 steps

#### **[Using parentNode to Traverse Up the DOM](https://teamtreehouse.com/library/using-parentnode-to-traverse-up-the-dom)**

[7:02](https://teamtreehouse.com/library/using-parentnode-to-traverse-up-the-dom)

#### **[Parent Traversal](https://teamtreehouse.com/library/javascript-and-the-dom-2/traversing-the-dom/parent-traversal)**

[2 objectives](https://teamtreehouse.com/library/javascript-and-the-dom-2/traversing-the-dom/parent-traversal)

#### **[Using previousElementSibling and insertBefore](https://teamtreehouse.com/library/using-previouselementsibling-and-insertbefore)**

[7:49](https://teamtreehouse.com/library/using-previouselementsibling-and-insertbefore)

#### **[Traversal Review](https://teamtreehouse.com/library/javascript-and-the-dom-2/traversing-the-dom/traversal-review)**

[5 questions](https://teamtreehouse.com/library/javascript-and-the-dom-2/traversing-the-dom/traversal-review)

#### **[Challenge: Using nextElementSibling](https://teamtreehouse.com/library/challenge-using-nextelementsibling)**

[0:37](https://teamtreehouse.com/library/challenge-using-nextelementsibling)

#### **[Solution: Using nextElementSibling](https://teamtreehouse.com/library/solution-using-nextelementsibling)**

[1:56](https://teamtreehouse.com/library/solution-using-nextelementsibling)

#### **[Sibling Traversal](https://teamtreehouse.com/library/javascript-and-the-dom-2/traversing-the-dom/sibling-traversal)**

[1 objective](https://teamtreehouse.com/library/javascript-and-the-dom-2/traversing-the-dom/sibling-traversal)

#### **[Getting All Children of a Node with children](https://teamtreehouse.com/library/getting-all-children-of-a-node-with-children)**

[5:39](https://teamtreehouse.com/library/getting-all-children-of-a-node-with-children)

#### **[Getting the First and Last Child](https://teamtreehouse.com/library/getting-the-first-and-last-child)**

[3:22](https://teamtreehouse.com/library/getting-the-first-and-last-child)

#### **[DOM Traversal - More Review](https://teamtreehouse.com/library/javascript-and-the-dom-2/traversing-the-dom/dom-traversal-more-review)**

[5 questions](https://teamtreehouse.com/library/javascript-and-the-dom-2/traversing-the-dom/dom-traversal-more-review)

#### **[Child Traversal](https://teamtreehouse.com/library/javascript-and-the-dom-2/traversing-the-dom/child-traversal)**

[2 objectives](https://teamtreehouse.com/library/javascript-and-the-dom-2/traversing-the-dom/child-traversal)

Responsive Layouts

### **About this Course**

Responsive web design is a collection of techniques for building websites that work on multiple screen sizes. In these lessons, we're going to use the foundational principles of responsive design as a framework for thinking about page layout. By the end, you should have a better understanding of how to approach common decisions in responsive design.

#### **What you'll learn**

* Responsive design theory
* Media queries
* Breakpoints
* Page layout

## Responsive Theory

In general, responsive design consists of fluid grids, fluid images, and media queries. By this point, you should have already done some responsive design, but understanding the origins and foundational principles will help you step into more advanced concepts.

 5 steps

#### **[Course Overview](https://teamtreehouse.com/library/responsive-layouts/responsive-theory/course-overview)**

[1:29](https://teamtreehouse.com/library/responsive-layouts/responsive-theory/course-overview)

#### **[What is Responsive Web Design?](https://teamtreehouse.com/library/what-is-responsive-web-design)**

[1:27](https://teamtreehouse.com/library/what-is-responsive-web-design)

#### **[What is Responsive Web Design?](https://teamtreehouse.com/library/responsive-layouts/responsive-theory/what-is-responsive-web-design-2)**

[3 questions](https://teamtreehouse.com/library/responsive-layouts/responsive-theory/what-is-responsive-web-design-2)

#### **[Thinking in Relative Units](https://teamtreehouse.com/library/thinking-in-relative-units)**

[2:12](https://teamtreehouse.com/library/thinking-in-relative-units)

#### **[Thinking in Relative Units](https://teamtreehouse.com/library/responsive-layouts/responsive-theory/thinking-in-relative-units-2)**

[4 questions](https://teamtreehouse.com/library/responsive-layouts/responsive-theory/thinking-in-relative-units-2)

## Media Queries

Media queries are CSS rules that help us include CSS code only when certain conditions are met. These conditions are called media features, and in the case of responsive web design, the media feature most commonly used is width, or more specifically, min-width. However, media queries actually come with many media features, and width is just one of them.

 5 steps

#### **[Media Query Review](https://teamtreehouse.com/library/media-query-review)**

[7:17](https://teamtreehouse.com/library/media-query-review)

#### **[Media Query Review](https://teamtreehouse.com/library/responsive-layouts/media-queries/media-query-review-2)**

[4 questions](https://teamtreehouse.com/library/responsive-layouts/media-queries/media-query-review-2)

#### **[Understanding Breakpoints](https://teamtreehouse.com/library/understanding-breakpoints)**

[2:53](https://teamtreehouse.com/library/understanding-breakpoints)

#### **[Creating Breakpoints](https://teamtreehouse.com/library/creating-breakpoints)**

[3:49](https://teamtreehouse.com/library/creating-breakpoints)

#### **[Creating Breakpoints](https://teamtreehouse.com/library/responsive-layouts/media-queries/creating-breakpoints-2)**

[4 questions](https://teamtreehouse.com/library/responsive-layouts/media-queries/creating-breakpoints-2)

## Responsive Patterns

It's important to consider how different design patterns will translate from one breakpoint to another. Thinking about pieces of atomic design, such as tabs or an image carrousel, is a great way to break down a responsive layout into its component parts.

 3 steps

#### **[Responsive Design Patterns](https://teamtreehouse.com/library/responsive-design-patterns)**

[2:32](https://teamtreehouse.com/library/responsive-design-patterns)

#### **[Flexbox](https://teamtreehouse.com/library/flexbox-2)**

[8:21](https://teamtreehouse.com/library/flexbox-2)

#### **[Responsive Design Review](https://teamtreehouse.com/library/responsive-layouts/responsive-patterns/responsive-design-review)**

[6 questions](https://teamtreehouse.com/library/responsive-layouts/responsive-patterns/responsive-design-review)

JQUERY BASICS

### **About this Course**

jQuery is an immensely popular JavaScript library used to add interactivity to webpages. It's a mature and robust tool that can help you build confidence as a developer by helping you quickly and easily get projects up and running.

This course explores the fundamentals of manipulating elements on a webpage and responding to user interactions. We cover what jQuery is, why you'd want to use it, and how to include it in your projects. Throughout the course, you'll use jQuery to enhance several small projects and learn how to add a level of flair and interactivity to any site you work on.

#### **What you'll learn**

* Event handling
* Manipulating the DOM
* DOM Traversal
* jQuery Collections

### **For best results, we recommend first taking these prerequisite courses...**

* **[Course](https://teamtreehouse.com/library/javascript-and-the-dom-2)**

### **[JavaScript and the DOM](https://teamtreehouse.com/library/javascript-and-the-dom-2)**

## Introducing jQuery

Learn what jQuery is, a bit about its history, and how to include it in your projects. Then dive into creating your first jQuery application: a blog previewer with a simple flash animation!

 11 steps

#### **[What is jQuery?](https://teamtreehouse.com/library/what-is-jquery)**

[3:10](https://teamtreehouse.com/library/what-is-jquery)

#### **[jQuery: History and Relevance Today](https://teamtreehouse.com/library/jquery-history-and-relevance-today)**

[2:51](https://teamtreehouse.com/library/jquery-history-and-relevance-today)

#### **[jQuery vs. JavaScript](https://teamtreehouse.com/library/jquery-vs-javascript)**

[6:02](https://teamtreehouse.com/library/jquery-vs-javascript)

#### **[Review: What is jQuery?](https://teamtreehouse.com/library/jquery-basics-2/introducing-jquery/review-what-is-jquery)**

[5 questions](https://teamtreehouse.com/library/jquery-basics-2/introducing-jquery/review-what-is-jquery)

#### **[Animating Elements with jQuery](https://teamtreehouse.com/library/animating-elements-with-jquery)**

[7:43](https://teamtreehouse.com/library/animating-elements-with-jquery)

#### **[jQuery Syntax and Animation Effects](https://teamtreehouse.com/library/jquery-basics-2/introducing-jquery/jquery-syntax-and-animation-effects)**

[2 objectives](https://teamtreehouse.com/library/jquery-basics-2/introducing-jquery/jquery-syntax-and-animation-effects)

#### **[Blog Previewer: Changing Content Inside Elements](https://teamtreehouse.com/library/blog-previewer-changing-content-inside-elements)**

[7:13](https://teamtreehouse.com/library/blog-previewer-changing-content-inside-elements)

#### **[Using text() and html()](https://teamtreehouse.com/library/jquery-basics-2/introducing-jquery/using-text-and-html)**

[3 objectives](https://teamtreehouse.com/library/jquery-basics-2/introducing-jquery/using-text-and-html)

#### **[Blog Previewer: Getting Values from Form Fields](https://teamtreehouse.com/library/blog-previewer-getting-values-from-form-fields)**

[6:06](https://teamtreehouse.com/library/blog-previewer-getting-values-from-form-fields)

#### **[Getting Values from Form Fields](https://teamtreehouse.com/library/jquery-basics-2/introducing-jquery/getting-values-from-form-fields)**

[2 objectives](https://teamtreehouse.com/library/jquery-basics-2/introducing-jquery/getting-values-from-form-fields)

#### **[Introduction to jQuery Review](https://teamtreehouse.com/library/jquery-basics-2/introducing-jquery/introduction-to-jquery-review)**

[5 questions](https://teamtreehouse.com/library/jquery-basics-2/introducing-jquery/introduction-to-jquery-review)

## Understanding jQuery Events and DOM Traversal

Learn more about jQuery selectors, events, and DOM traversal by building a fun and interactive spoiler revealer.

 13 steps

#### **[Adding jQuery to a Project](https://teamtreehouse.com/library/adding-jquery-to-a-project)**

[2:43](https://teamtreehouse.com/library/adding-jquery-to-a-project)

#### **[Spoiler Revealer: Breaking it Down](https://teamtreehouse.com/library/spoiler-revealer-breaking-it-down)**

[6:28](https://teamtreehouse.com/library/spoiler-revealer-breaking-it-down)

#### **[Understanding Unobtrusive JavaScript](https://teamtreehouse.com/library/understanding-unobtrusive-javascript)**

[4:38](https://teamtreehouse.com/library/understanding-unobtrusive-javascript)

#### **[Adding New Elements to the DOM](https://teamtreehouse.com/library/adding-new-elements-to-the-dom)**

[5:06](https://teamtreehouse.com/library/adding-new-elements-to-the-dom)

#### **[Progressive Enhancement and Unobtrusive JavaScript](https://teamtreehouse.com/library/jquery-basics-2/understanding-jquery-events-and-dom-traversal/progressive-enhancement-and-unobtrusive-javascript)**

[5 questions](https://teamtreehouse.com/library/jquery-basics-2/understanding-jquery-events-and-dom-traversal/progressive-enhancement-and-unobtrusive-javascript)

#### **[Adding New Elements to the DOM](https://teamtreehouse.com/library/jquery-basics-2/understanding-jquery-events-and-dom-traversal/adding-new-elements-to-the-dom)**

[2 objectives](https://teamtreehouse.com/library/jquery-basics-2/understanding-jquery-events-and-dom-traversal/adding-new-elements-to-the-dom)

#### **[Using on() for Event Handling](https://teamtreehouse.com/library/using-on-for-event-handling)**

[2:26](https://teamtreehouse.com/library/using-on-for-event-handling)

#### **[Using Events with Dynamically Added Elements](https://teamtreehouse.com/library/using-events-with-dynamically-added-elements)**

[4:41](https://teamtreehouse.com/library/using-events-with-dynamically-added-elements)

#### **[The Event Object](https://teamtreehouse.com/library/the-event-object-3)**

[4:44](https://teamtreehouse.com/library/the-event-object-3)

#### **[Events with jQuery](https://teamtreehouse.com/library/jquery-basics-2/understanding-jquery-events-and-dom-traversal/events-with-jquery)**

[2 objectives](https://teamtreehouse.com/library/jquery-basics-2/understanding-jquery-events-and-dom-traversal/events-with-jquery)

#### **[What is Traversal?](https://teamtreehouse.com/library/what-is-traversal)**

[8:42](https://teamtreehouse.com/library/what-is-traversal)

#### **[DOM Traversal with jQuery](https://teamtreehouse.com/library/jquery-basics-2/understanding-jquery-events-and-dom-traversal/dom-traversal-with-jquery)**

[2 objectives](https://teamtreehouse.com/library/jquery-basics-2/understanding-jquery-events-and-dom-traversal/dom-traversal-with-jquery)

#### **[jQuery Events and DOM Traversal Review](https://teamtreehouse.com/library/jquery-basics-2/understanding-jquery-events-and-dom-traversal/jquery-events-and-dom-traversal-review)**

[5 questions](https://teamtreehouse.com/library/jquery-basics-2/understanding-jquery-events-and-dom-traversal/jquery-events-and-dom-traversal-review)

## Working with jQuery Collections

Use more advanced selectors and traversal methods, and learn how to loop through a jQuery collection by enhancing a web development newsfeed.

 10 steps

#### **[jQuery-Specific Selectors](https://teamtreehouse.com/library/jqueryspecific-selectors)**

[8:22](https://teamtreehouse.com/library/jqueryspecific-selectors)

#### **[Working with jQuery-Specific Selectors](https://teamtreehouse.com/library/jquery-basics-2/working-with-jquery-collections/working-with-jqueryspecific-selectors)**

[1 objective](https://teamtreehouse.com/library/jquery-basics-2/working-with-jquery-collections/working-with-jqueryspecific-selectors)

#### **[Changing Element Properties](https://teamtreehouse.com/library/changing-element-properties)**

[4:46](https://teamtreehouse.com/library/changing-element-properties)

#### **[Changing Element Styles and Classes](https://teamtreehouse.com/library/changing-element-styles-and-classes)**

[3:20](https://teamtreehouse.com/library/changing-element-styles-and-classes)

#### **[Adding/Removing Classes](https://teamtreehouse.com/library/jquery-basics-2/working-with-jquery-collections/addingremoving-classes)**

[2 objectives](https://teamtreehouse.com/library/jquery-basics-2/working-with-jquery-collections/addingremoving-classes)

#### **[Stopping the Browser's Default Behavior](https://teamtreehouse.com/library/stopping-the-browsers-default-behavior)**

[8:11](https://teamtreehouse.com/library/stopping-the-browsers-default-behavior)

#### **[Looping through a jQuery collection](https://teamtreehouse.com/library/looping-through-a-jquery-collection)**

[6:15](https://teamtreehouse.com/library/looping-through-a-jquery-collection)

#### **[The .each() method](https://teamtreehouse.com/library/jquery-basics-2/working-with-jquery-collections/the-each-method)**

[1 objective](https://teamtreehouse.com/library/jquery-basics-2/working-with-jquery-collections/the-each-method)

#### **[Conclusion](https://teamtreehouse.com/library/conclusion-11)**

[3:19](https://teamtreehouse.com/library/conclusion-11)

#### **[Working with jQuery Collections Review](https://teamtreehouse.com/library/jquery-basics-2/working-with-jquery-collections/working-with-jquery-collections-review)**

[5 questions](https://teamtreehouse.com/library/jquery-basics-2/working-with-jquery-collections/working-with-jquery-collections-review)

CSS Flexbot Layout

### **About this Course**

Flexbox is a set of CSS properties that give you a flexible way to lay out content. With flexbox you can change the direction, alignment, size and order of elements, regardless of their original size and order in the HTML. You can even stretch and shrink elements and distribute space, all with just a few lines of CSS!

## Understanding Flexbox

Before you begin using flexbox in your layouts, you should understand the terminology and concepts behind flexbox.

 5 steps

#### **[Introducing Flexbox](https://teamtreehouse.com/library/introducing-flexbox)**

[2:42](https://teamtreehouse.com/library/introducing-flexbox)

#### **[Flexbox Basics and Terminology](https://teamtreehouse.com/library/flexbox-basics-and-terminology)**

[2:20](https://teamtreehouse.com/library/flexbox-basics-and-terminology)

#### **[Flexbox Basics Review](https://teamtreehouse.com/library/css-flexbox-layout/understanding-flexbox/flexbox-basics-review)**

[6 questions](https://teamtreehouse.com/library/css-flexbox-layout/understanding-flexbox/flexbox-basics-review)

#### **[Creating a Flex Container](https://teamtreehouse.com/library/creating-a-flex-container)**

[4:50](https://teamtreehouse.com/library/creating-a-flex-container)

#### **[Flex Container Challenge](https://teamtreehouse.com/library/css-flexbox-layout/understanding-flexbox/flex-container-challenge)**

[1 objective](https://teamtreehouse.com/library/css-flexbox-layout/understanding-flexbox/flex-container-challenge)

## Flexbox Properties

Learn advanced flexbox properties for layout direction, order, alignment, sizing and more.

 11 steps

#### **[Controlling the Direction of Flex Items](https://teamtreehouse.com/library/controlling-the-direction-of-flex-items)**

[3:47](https://teamtreehouse.com/library/controlling-the-direction-of-flex-items)

#### **[Wrapping Flex Items](https://teamtreehouse.com/library/wrapping-flex-items)**

[2:33](https://teamtreehouse.com/library/wrapping-flex-items)

#### **[Distributing Space Inside a Flex Container](https://teamtreehouse.com/library/distributing-space-inside-a-flex-container)**

[5:55](https://teamtreehouse.com/library/distributing-space-inside-a-flex-container)

#### **[Changing the Order of Flex Items](https://teamtreehouse.com/library/changing-the-order-of-flex-items)**

[5:32](https://teamtreehouse.com/library/changing-the-order-of-flex-items)

#### **[Wrapping Items and Distributing Space](https://teamtreehouse.com/library/css-flexbox-layout/flexbox-properties/wrapping-items-and-distributing-space)**

[3 objectives](https://teamtreehouse.com/library/css-flexbox-layout/flexbox-properties/wrapping-items-and-distributing-space)

#### **[Growing Flex Items](https://teamtreehouse.com/library/growing-flex-items)**

[3:42](https://teamtreehouse.com/library/growing-flex-items)

#### **[Smarter Layouts with flex-basis and flex](https://teamtreehouse.com/library/smarter-layouts-with-flexbasis-and-flex)**

[6:42](https://teamtreehouse.com/library/smarter-layouts-with-flexbasis-and-flex)

#### **[Aligning Flex Items on the Cross Axis](https://teamtreehouse.com/library/aligning-flex-items-on-the-cross-axis)**

[3:43](https://teamtreehouse.com/library/aligning-flex-items-on-the-cross-axis)

#### **[Growing and Aligning Flex Items](https://teamtreehouse.com/library/css-flexbox-layout/flexbox-properties/growing-and-aligning-flex-items)**

[3 objectives](https://teamtreehouse.com/library/css-flexbox-layout/flexbox-properties/growing-and-aligning-flex-items)

#### **[Vertical and Horizontal Centering](https://teamtreehouse.com/library/vertical-and-horizontal-centering)**

[4:14](https://teamtreehouse.com/library/vertical-and-horizontal-centering)

#### **[Flexbox Properties Review](https://teamtreehouse.com/library/css-flexbox-layout/flexbox-properties/flexbox-properties-review)**

[6 questions](https://teamtreehouse.com/library/css-flexbox-layout/flexbox-properties/flexbox-properties-review)

## Building a Layout with Flexbox

It's time to put those new flexbox skills into practice! In this section, you're going to use flexbox to build the layout for a simple web page.

 7 steps

#### **[Building a Navigation Bar with Flexbox](https://teamtreehouse.com/library/building-a-navigation-bar-with-flexbox)**

[7:32](https://teamtreehouse.com/library/building-a-navigation-bar-with-flexbox)

#### **[Creating a Two Column Layout with Flexbox](https://teamtreehouse.com/library/creating-a-two-column-layout-with-flexbox)**

[2:36](https://teamtreehouse.com/library/creating-a-two-column-layout-with-flexbox)

#### **[Creating a Three Column Layout with Flexbox](https://teamtreehouse.com/library/creating-a-three-column-layout-with-flexbox)**

[5:24](https://teamtreehouse.com/library/creating-a-three-column-layout-with-flexbox)

#### **[Aligning Items to the Bottom of a Column](https://teamtreehouse.com/library/aligning-items-to-the-bottom-of-a-column)**

[4:13](https://teamtreehouse.com/library/aligning-items-to-the-bottom-of-a-column)

#### **[Creating a Sticky Footer with Flexbox](https://teamtreehouse.com/library/creating-a-sticky-footer-with-flexbox)**

[4:58](https://teamtreehouse.com/library/creating-a-sticky-footer-with-flexbox)

#### **[Building a Layout with Flexbox](https://teamtreehouse.com/library/css-flexbox-layout/building-a-layout-with-flexbox/building-a-layout-with-flexbox)**

[5 questions](https://teamtreehouse.com/library/css-flexbox-layout/building-a-layout-with-flexbox/building-a-layout-with-flexbox)

#### **[Flexbox Columns Challenge](https://teamtreehouse.com/library/css-flexbox-layout/building-a-layout-with-flexbox/flexbox-columns-challenge)**

[2 objectives](https://teamtreehouse.com/library/css-flexbox-layout/building-a-layout-with-flexbox/flexbox-columns-challenge)

Bootstrap 4 Basics

### **About this Course**

Learn to use the latest in Bootstrap 4, one of the most popular open source front end frameworks, to help you build a functional design and layout in little time.

#### **What you'll learn**

* Working with components
* Layout with the grid
* Styling content
* Building and laying out forms

## Getting to Know Bootstrap 4

In this stage, you'll get to know the Bootstrap documentation, then learn how Bootstrap solves common layout, typography and browser compatibility problems by building a simple project.

 6 steps

#### **[Rapid Development with Bootstrap](https://teamtreehouse.com/library/rapid-development-with-bootstrap-2)**

[2:01](https://teamtreehouse.com/library/rapid-development-with-bootstrap-2)

#### **[Introducing Bootstrap 4](https://teamtreehouse.com/library/introducing-bootstrap-4-2)**

[5:35](https://teamtreehouse.com/library/introducing-bootstrap-4-2)

#### **[Getting Started](https://teamtreehouse.com/library/getting-started-12)**

[3:14](https://teamtreehouse.com/library/getting-started-12)

#### **[Creating a Simple Page](https://teamtreehouse.com/library/creating-a-simple-page-2)**

[7:31](https://teamtreehouse.com/library/creating-a-simple-page-2)

#### **[Enhancing the Page](https://teamtreehouse.com/library/enhancing-the-page-2)**

[5:07](https://teamtreehouse.com/library/enhancing-the-page-2)

#### **[Getting to Know Bootstrap 4 Review](https://teamtreehouse.com/library/bootstrap-4-basics-2/getting-to-know-bootstrap-4/getting-to-know-bootstrap-4-review)**

[6 questions](https://teamtreehouse.com/library/bootstrap-4-basics-2/getting-to-know-bootstrap-4/getting-to-know-bootstrap-4-review)

## Responsive Layouts With the Bootstrap Grid

Learn Bootstrap's components and options for laying out your project, including containers, the grid system, and responsive utility classes.

 7 steps

#### **[Introducing the Project](https://teamtreehouse.com/library/introducing-the-project-9)**

[1:51](https://teamtreehouse.com/library/introducing-the-project-9)

#### **[Layout in Bootstrap](https://teamtreehouse.com/library/layout-in-bootstrap-2)**

[2:02](https://teamtreehouse.com/library/layout-in-bootstrap-2)

#### **[How the Bootstrap Grid Works](https://teamtreehouse.com/library/how-the-bootstrap-grid-works-2)**

[5:58](https://teamtreehouse.com/library/how-the-bootstrap-grid-works-2)

#### **[Styling Content](https://teamtreehouse.com/library/styling-content-2)**

[7:39](https://teamtreehouse.com/library/styling-content-2)

#### **[Column Sizing](https://teamtreehouse.com/library/column-sizing-2)**

[6:52](https://teamtreehouse.com/library/column-sizing-2)

#### **[Reordering and Offsetting Columns](https://teamtreehouse.com/library/reordering-and-offsetting-columns)**

[7:08](https://teamtreehouse.com/library/reordering-and-offsetting-columns)

#### **[Responsive Layouts with the Bootstrap Grid Review](https://teamtreehouse.com/library/bootstrap-4-basics-2/responsive-layouts-with-the-bootstrap-grid/responsive-layouts-with-the-bootstrap-grid-review)**

[6 questions](https://teamtreehouse.com/library/bootstrap-4-basics-2/responsive-layouts-with-the-bootstrap-grid/responsive-layouts-with-the-bootstrap-grid-review)

## Using Bootstrap Components

Learn to use Bootstrap’s custom styles for common code components and user interface tasks like navbars, buttons, dropdown menus, modals and more.

 9 steps

#### **[Building a Navbar](https://teamtreehouse.com/library/building-a-navbar-2)**

[9:17](https://teamtreehouse.com/library/building-a-navbar-2)

#### **[Using Jumbotron to Showcase Key Content](https://teamtreehouse.com/library/using-jumbotron-to-showcase-key-content-2)**

[2:48](https://teamtreehouse.com/library/using-jumbotron-to-showcase-key-content-2)

#### **[Buttons and Button Groups](https://teamtreehouse.com/library/buttons-and-button-groups)**

[5:22](https://teamtreehouse.com/library/buttons-and-button-groups)

#### **[Inline Navs and Dropdown Buttons](https://teamtreehouse.com/library/inline-navs-and-dropdown-buttons-2)**

[5:09](https://teamtreehouse.com/library/inline-navs-and-dropdown-buttons-2)

#### **[Displaying Content with Cards](https://teamtreehouse.com/library/displaying-content-with-cards)**

[7:32](https://teamtreehouse.com/library/displaying-content-with-cards)

#### **[Building the Schedule with a List Group](https://teamtreehouse.com/library/building-the-schedule-with-a-list-group-2)**

[6:26](https://teamtreehouse.com/library/building-the-schedule-with-a-list-group-2)

#### **[Displaying a Modal Window](https://teamtreehouse.com/library/displaying-a-modal-window)**

[5:02](https://teamtreehouse.com/library/displaying-a-modal-window)

#### **[Using ScrollSpy to Highlight Nav Links](https://teamtreehouse.com/library/using-scrollspy-to-highlight-nav-links)**

[4:22](https://teamtreehouse.com/library/using-scrollspy-to-highlight-nav-links)

#### **[Bootstrap Components Review](https://teamtreehouse.com/library/bootstrap-4-basics-2/using-bootstrap-components/bootstrap-components-review)**

[6 questions](https://teamtreehouse.com/library/bootstrap-4-basics-2/using-bootstrap-components/bootstrap-components-review)

## Building Forms With Bootstrap

Learn Bootstrap's control styles, layout options and custom components for creating stylish forms that look consistent across all modern browsers and devices.

 6 steps

#### **[Form Groups and Form Controls](https://teamtreehouse.com/library/form-groups-and-form-controls-2)**

[6:23](https://teamtreehouse.com/library/form-groups-and-form-controls-2)

#### **[Adding a Select Menu](https://teamtreehouse.com/library/adding-a-select-menu)**

[1:51](https://teamtreehouse.com/library/adding-a-select-menu)

#### **[Custom Form Controls for Cross-Browser Consistency](https://teamtreehouse.com/library/custom-form-controls-for-crossbrowser-consistency-2)**

[6:23](https://teamtreehouse.com/library/custom-form-controls-for-crossbrowser-consistency-2)

#### **[Structured Form Layouts with the Grid](https://teamtreehouse.com/library/structured-form-layouts-with-the-grid-2)**

[7:01](https://teamtreehouse.com/library/structured-form-layouts-with-the-grid-2)

#### **[Add Custom CSS to Your Bootstrap Site](https://teamtreehouse.com/library/add-custom-css-to-your-bootstrap-site)**

[5:37](https://teamtreehouse.com/library/add-custom-css-to-your-bootstrap-site)

#### **[Building Forms with Bootstrap Review](https://teamtreehouse.com/library/bootstrap-4-basics-2/building-forms-with-bootstrap/building-forms-with-bootstrap-review)**

[5 questions](https://teamtreehouse.com/library/bootstrap-4-basics-2/building-forms-with-bootstrap/building-forms-with-bootstrap-review)

Accessibility

### **About this Course**

Accessibility is the practice of making websites available to all people, regardless of their abilities or disabilities.

#### **What you'll learn**

* Vision, hearing, and mental impairments
* Optimizing HTML and CSS for screen readers
* Improving accessibility of forms, tables, and charts

## Introduction

A broad definition of accessibility could include mobile devices, software machines, and people with disabilities. However, the more traditional definition of accessibility focuses exclusively on people that access the web in atypical ways.

 7 steps

#### **[Getting Started](https://teamtreehouse.com/library/accessibility/introduction/getting-started)**

[4:52](https://teamtreehouse.com/library/accessibility/introduction/getting-started)

#### **[Why Accessibility?](https://teamtreehouse.com/library/accessibility/introduction/why-accessibility)**

[5:01](https://teamtreehouse.com/library/accessibility/introduction/why-accessibility)

#### **[Vision: Part 1](https://teamtreehouse.com/library/accessibility/introduction/vision-part-1)**

[7:06](https://teamtreehouse.com/library/accessibility/introduction/vision-part-1)

#### **[Vision: Part 2](https://teamtreehouse.com/library/accessibility/introduction/vision-part-2)**

[5:13](https://teamtreehouse.com/library/accessibility/introduction/vision-part-2)

#### **[Hearing](https://teamtreehouse.com/library/accessibility/introduction/hearing)**

[5:29](https://teamtreehouse.com/library/accessibility/introduction/hearing)

#### **[Mobility and Cognition](https://teamtreehouse.com/library/accessibility/introduction/mobility-and-cognition)**

[4:18](https://teamtreehouse.com/library/accessibility/introduction/mobility-and-cognition)

#### **[Review of Basic Accessibility](https://teamtreehouse.com/library/accessibility/introduction/review-of-basic-accessibility)**

[5 questions](https://teamtreehouse.com/library/accessibility/introduction/review-of-basic-accessibility)

## Websites

Accessibility on a static website has a lot to do with creating semantic markup. However, creating an aesthetic with CSS is equally important and can help users with various types of vision and motor impairments.

 8 steps

#### **[Screen Readers](https://teamtreehouse.com/library/accessibility/websites/screen-readers)**

[4:07](https://teamtreehouse.com/library/accessibility/websites/screen-readers)

#### **[Low Fidelity Mockups](https://teamtreehouse.com/library/accessibility/websites/low-fidelity-mockups)**

[6:41](https://teamtreehouse.com/library/accessibility/websites/low-fidelity-mockups)

#### **[HTML: Part 1](https://teamtreehouse.com/library/accessibility/websites/html-part-1)**

[5:29](https://teamtreehouse.com/library/accessibility/websites/html-part-1)

#### **[HTML: Part 2](https://teamtreehouse.com/library/accessibility/websites/html-part-2)**

[5:06](https://teamtreehouse.com/library/accessibility/websites/html-part-2)

#### **[CSS: Part 1](https://teamtreehouse.com/library/accessibility/websites/css-part-1)**

[7:38](https://teamtreehouse.com/library/accessibility/websites/css-part-1)

#### **[CSS: Part 2](https://teamtreehouse.com/library/accessibility/websites/css-part-2)**

[5:32](https://teamtreehouse.com/library/accessibility/websites/css-part-2)

#### **[CSS: Part 3](https://teamtreehouse.com/library/accessibility/websites/css-part-3)**

[7:53](https://teamtreehouse.com/library/accessibility/websites/css-part-3)

#### **[Review of Accessible Websites](https://teamtreehouse.com/library/accessibility/websites/review-of-accessible-websites)**

[5 questions](https://teamtreehouse.com/library/accessibility/websites/review-of-accessible-websites)

## Web Apps

Dynamic websites often deal with lots of input and output of data. This typically involves the utilization of forms and tables, which can pose some accessibility issues if they're not coded properly.

 4 steps

#### **[Forms](https://teamtreehouse.com/library/accessibility/web-apps/forms)**

[6:35](https://teamtreehouse.com/library/accessibility/web-apps/forms)

#### **[Tables](https://teamtreehouse.com/library/accessibility/web-apps/tables)**

[5:03](https://teamtreehouse.com/library/accessibility/web-apps/tables)

#### **[Charts and Graphs](https://teamtreehouse.com/library/accessibility/web-apps/charts-and-graphs)**

[6:41](https://teamtreehouse.com/library/accessibility/web-apps/charts-and-graphs)

#### **[Review of Accessible Web Apps](https://teamtreehouse.com/library/accessibility/web-apps/review-of-accessible-web-apps)**

[5 questions](https://teamtreehouse.com/library/accessibility/web-apps/review-of-accessible-web-apps)

Website Optimization

### **About this Course**

In this course we'll cover tools needed in keeping your website in top shape. These tools will help you perform tasks like debugging a problem to improving your page load times.

#### **What you'll learn**

* Overview of the Chrome DevTools
* Website optimization using the Chrome DevTools
* Code debugging with the Chrome DevTools

## Chrome DevTools Basics

The Google Chrome web browser includes a built in set of features for web designers and developers called the Chrome DevTools. Using the DevTools, any webpage can be inspected for bugs and profiled on a number of performance characteristics. Some of the most powerful panels in the DevTools include the Elements panel which allows for interaction with DOM tree and styling, as well as the Console panel, which makes it trivial to access JavaScript functions and test out new front-end code.

 22 steps

#### **[Accessing the DevTools](https://teamtreehouse.com/library/accessing-the-devtools-2)**

[2:52](https://teamtreehouse.com/library/accessing-the-devtools-2)

#### **[Accessing the DevTools](https://teamtreehouse.com/library/website-optimization/chrome-devtools-basics/accessing-the-devtools)**

[4 questions](https://teamtreehouse.com/library/website-optimization/chrome-devtools-basics/accessing-the-devtools)

#### **[The Elements Panel](https://teamtreehouse.com/library/the-elements-panel-2)**

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#### **[The Elements Panel](https://teamtreehouse.com/library/website-optimization/chrome-devtools-basics/the-elements-panel)**

[4 questions](https://teamtreehouse.com/library/website-optimization/chrome-devtools-basics/the-elements-panel)

#### **[The Resources Panel](https://teamtreehouse.com/library/the-resources-panel-2)**

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#### **[The Resources Panel](https://teamtreehouse.com/library/website-optimization/chrome-devtools-basics/the-resources-panel)**

[4 questions](https://teamtreehouse.com/library/website-optimization/chrome-devtools-basics/the-resources-panel)

#### **[The Network Panel](https://teamtreehouse.com/library/the-network-panel-2)**

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#### **[The Network Panel](https://teamtreehouse.com/library/website-optimization/chrome-devtools-basics/the-network-panel)**

[4 questions](https://teamtreehouse.com/library/website-optimization/chrome-devtools-basics/the-network-panel)

#### **[The Sources Panel](https://teamtreehouse.com/library/the-sources-panel-2)**

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#### **[The Sources Panel](https://teamtreehouse.com/library/website-optimization/chrome-devtools-basics/the-sources-panel)**

[4 questions](https://teamtreehouse.com/library/website-optimization/chrome-devtools-basics/the-sources-panel)

#### **[The Timeline Panel](https://teamtreehouse.com/library/the-timeline-panel-2)**

[5:26](https://teamtreehouse.com/library/the-timeline-panel-2)

#### **[The Timeline Panel](https://teamtreehouse.com/library/website-optimization/chrome-devtools-basics/the-timeline-panel)**

[4 questions](https://teamtreehouse.com/library/website-optimization/chrome-devtools-basics/the-timeline-panel)

#### **[The Profiles Panel](https://teamtreehouse.com/library/the-profiles-panel-2)**

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#### **[The Profiles Panel](https://teamtreehouse.com/library/website-optimization/chrome-devtools-basics/the-profiles-panel)**

[4 questions](https://teamtreehouse.com/library/website-optimization/chrome-devtools-basics/the-profiles-panel)

#### **[The Audits Panel](https://teamtreehouse.com/library/the-audits-panel-2)**

[2:29](https://teamtreehouse.com/library/the-audits-panel-2)

#### **[The Audits Panel](https://teamtreehouse.com/library/website-optimization/chrome-devtools-basics/the-audits-panel)**

[3 questions](https://teamtreehouse.com/library/website-optimization/chrome-devtools-basics/the-audits-panel)

#### **[The Console Panel](https://teamtreehouse.com/library/the-console-panel-2)**

[6:59](https://teamtreehouse.com/library/the-console-panel-2)

#### **[The Console Panel](https://teamtreehouse.com/library/website-optimization/chrome-devtools-basics/the-console-panel)**

[5 questions](https://teamtreehouse.com/library/website-optimization/chrome-devtools-basics/the-console-panel)

#### **[The Console API](https://teamtreehouse.com/library/the-console-api-2)**

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#### **[The Console API](https://teamtreehouse.com/library/website-optimization/chrome-devtools-basics/the-console-api)**

[3 questions](https://teamtreehouse.com/library/website-optimization/chrome-devtools-basics/the-console-api)

#### **[Adjusting Settings](https://teamtreehouse.com/library/adjusting-settings-2)**

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#### **[Adjusting Settings](https://teamtreehouse.com/library/website-optimization/chrome-devtools-basics/adjusting-settings)**

[3 questions](https://teamtreehouse.com/library/website-optimization/chrome-devtools-basics/adjusting-settings)