

### **Advanced HTML and CSS**

[**5.1** Getting Started](https://codehs.com/course/1939/lesson/5.1)

Students will preview some of the advanced HTML/CSS features they will be learning how to use in this module!

## **Objective**

* Students will reflect on what they have learned so far in this course.
* Students will preview what they will learn in the advanced HTML/CSS module

[**5.2** Multi-file Websites](https://codehs.com/course/1939/lesson/5.2)

Students will learn why multi-file websites are important and how they can create them.

## **Objective**

* Students will be able to articulate why multi-page websites make sense from a user experience perspective and from a development perspective
* Students will be able to create multi-file websites that are divided for clarity and organization

[**5.3** Embedding iframes](https://codehs.com/course/1939/lesson/5.3)

In this lesson, students will learn how to embed content from other websites into their own websites using IFrames.

## **Objective**

* Students will be able to define what an IFrame is, and explain how they might be used in websites.
* Students will be able to use IFrames to embed other websites into their own website.

[**5.4** Divs](https://codehs.com/course/1939/lesson/5.4)

In this lesson, students will learn how to use divs to group and style multiple elements.

## **Objective**

* Students will be able to use divs to group and style multiple elements at once.

[**5.5** SpansIn this lesson, students learn how to use spans to group and style multiple elements of inline text.](https://codehs.com/course/1939/lesson/5.5)

## **[Objective](https://codehs.com/course/1939/lesson/5.5)**

* [Students will be able to use the <span> tag to style multiple elements of inline text.](https://codehs.com/course/1939/lesson/5.5)

[**5.6** Combining CSS Selectors](https://codehs.com/course/1939/lesson/5.6)

In this lesson, students learn how to combine CSS selectors so they can style multiple selectors and combinations, or specific parent/child selectors.

## **Objective**

* Students will be able to combine CSS selectors to style multiple selectors, parent/child selectors, and specific combinations of classes, ids, and tags.

[**5.7** The Don't Repeat Yourself Principle](https://codehs.com/course/1939/lesson/5.7)

In this lesson, students will learn the Don’t Repeat Yourself (DRY) principle.

## **Objective**

* Students will be able to articulate the importance of the DRY Principle.
* Students will be able to cut down on the amount of repeated code in their programs by combining selectors and using div.

[**5.8** Special Selectors](https://codehs.com/course/1939/lesson/5.8)

In this lesson, students will learn about special selectors such as :hover and :focus, and how these selectors can be used to style elements as the user interacts with them on the page.

## **Objective**

* Students will be able to use special selectors to style their website as the user interacts with elements on the page.

[**5.9** Visibility](https://codehs.com/course/1939/lesson/5.9)

In this lesson, students learn how to use the visibility property to make elements visible or invisible on their page.

## **Objective**

* Students will be able to use the visibility property to make elements visible or invisible on their page.
* Students will be able to articulate the different between visibility and display properties (visibility still takes up space when it’s not visible, display does not)

[**5.10** Reading Documentation](https://codehs.com/course/1939/lesson/5.10)

In this lesson, students will learn how they can use documentation as a resource to learn more about HTML and CSS features.

## **Objective**

* Students will be able to use documentation to explore HTML and CSS features that are not covered in the course

[**5.11** Using the Inspector](https://codehs.com/course/1939/lesson/5.11)

In this lesson, students will learn how to use the inspector tool to explore and modify code inline.

## **Objective**

* Students will be able to use the inspector tool to modify styling and content inline.

[**5.12** The Box Model](https://codehs.com/course/1939/lesson/5.12)

In this lesson, students will learn what the box model is, and how they can use it to add a border around elements, and to define space between elements.

## **Objective**

* Students will understand how the box model is essentially a box that wraps around every HTML element.
* Students will be able to name the different components that wrap around an HTML element.
* Students will be able to modify the margins, borders and padding of an HTML element.

[**5.13** Image Manipulation](https://codehs.com/course/1939/lesson/5.13)

In this lesson, students will learn how to modify images using CSS image manipulation.

## **Objective**

* Students will be able to use CSS to manipulate images using filters, opacity, sizing, and more

[**5.14** Animation](https://codehs.com/course/1939/lesson/5.14)

In this lesson, students will learn how to add simple animations to their websites.

## **Objective**

* Students will be able to add simple animations to their websites, such as transitions, transition delays, color changes, size changes, and rotations.

[**5.15** Interaction](https://codehs.com/course/1939/lesson/5.15)

In this lesson, students will combine special selectors like :hover with animations to create sites that respond to the user’s actions.

## **Objective**

* Students will be able to add simple interactions to their websites, so that parts of the website change if the user hovers or clicks on parts of the site.

[**5.16** End of Unit Test](https://codehs.com/course/1939/lesson/5.16)