

Module 3 Day 2

CSS: Selectors and The Box Model

CSS: Cascading Style Sheets

- CSS allows us to define how an element appears on a website through the use of style rules.
- These rules can control everything from colors and fonts, to positioning and behavior.
- For the purposes of layout and design, every element is thought of as a box, and a style rule is meant to format that box (and its contents).

CSS: Using Stylesheets

Internally:

CSS can be used by declaring a `<style>...rules...</style>` element within the `<head></head>`

Externally:

CSS files are linked, related, to a webpage (HTML) using the `<link/>` element within the `<head></head>`. Link elements should have three attributes:

`href` = “*path_to_the_stylesheet.css*”

`rel` = “stylesheet”

`type` = “text/css”

CSS: The Box Model

When you look at a website, learn to “see” every element as a box.

This box surrounds both **BLOCK** level and **IN-LINE** level elements.

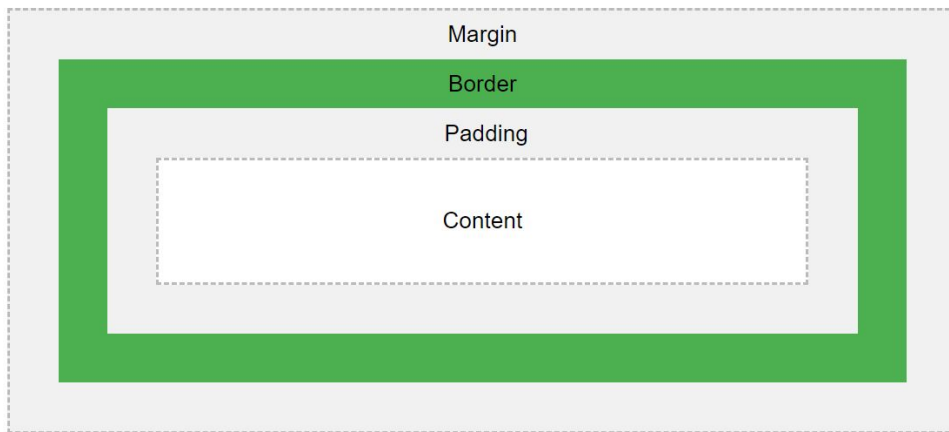
The box has four (4) parts:

Margin - Outside Edge

Border - Outline

Padding - Surrounds Content

Content - Inner HTML & Text



Block:

(Start on a new line)

<div>

<h1-6>

<p>

In-line:

(Flow with text)

 & <i>

CSS: Application of Style Rules

Boxes:

- Background - Color and Image

- Border - Width, Style (Solid, Dashes, Dots), Color
Position

Text:

- Font (Typeface)

- Color

- Size

- Format (Bold, Italic, Upper\Lower Case)

Special Element Specific Styling Attributes Exist For:

- Forms

- Lists

- Tables

CSS: Anatomy of a Style Rule

Style rules have four parts:

Selector

Declaration

Properties

Values

div

{ border-style: solid; border-width: 2px; **}**

{ **border-style:** solid; **border-width:** 2px; **}**

{ border-style: **solid**; border-width: **2px**; **}**

div **{** border-style: **solid**; border-width: **2px**; **}**

CSS: Selectors - The Basics

- Universal: * {} Targets all elements on a page
- Element: h1 {} Targets all *h1* elements on a page
- ID: #userphone {} Targets the element whose ID="userphone"
- Class: .info
 div.info Targets any element with a class attribute with a value "info"
 Targets only *div* elements with a class attribute value "info"
- Descendent: div ul {} Targets any *ul* elements inside a *div* element **regardless** of other elements in the *div*
- Child: li>a {} Targets any *a* element that is the **direct child** of an *li* element
- Siblings:
 - Adjacent: h1+p {} Targets the next *p* element after an *h1* element under the same Parent element
 - General: h1~p {} Targets all *p* elements that are siblings of an *h1* without regard to its position

CSS: Selectors - Beyond The Basics

- Attributes

- Existence: `h1[class]` Targets all h1 tags with a class attribute
- Equality `h1[class="note"]` Targets all h1 tags with a class attribute value equal to "note"
- Space `h1[class~="note"]` Targets all h1 tags with space delimited attributes in which one value is equal to "note"
- Prefix `div[attr^n]` Targets all div tags with an attribute value beginning with "n"
- Substring `div[attr*ot]` Targets all div tags with attribute values containing the letters "ot"
- Suffix `div[attr$e]` Targets all div tags with an attribute value ending in "e"

- Pseudo

- `:hover` `input[type="text"]:hover` Applies when the cursor or pointer is over an element
- `:focus` `input[type="text"]:focus` Applies when an element has the focus (is ready for and the focus of user interaction)
- `:active` `input[type="text"]:active` Applies when a user is interacting with the element