

Simple HTML Document

```
<!DOCTYPE html>
<html>
<head>
  <title>Box Model</title>
  <link rel="stylesheet" href="box-model.css" />
</head>
<body>
  <img id="slug_1" src="img/slug.png" alt="slug">
  padding: 50px; margin: 0; border: 3px solid black;
  <div>
    <img id="slug 2" src="img/slug.png" alt="slug">
    padding: 0; margin: 50px; border: 3px solid black;
  </div>
</body>
</html>
```

CSS: Cascading Style Sheet

- CSS is the way we tell HTML how to format itself
- CSS can be included by:
 - inline on any element with a style attribute
 - within the document under a <style> element
 - external document reference with a <link href=> element

CSS in document

Well, that escalated quickly...

• Start with a selector

• Then, a declaration block.

body {

background-color: green;
}

CSS Selectors

Type	Example
Universal	*
Element	<pre>body { background: green; }</pre>
Id	#slug_1
Class	<pre>.bigBorder{ border: double; }</pre>

Fancy CSS Selectors

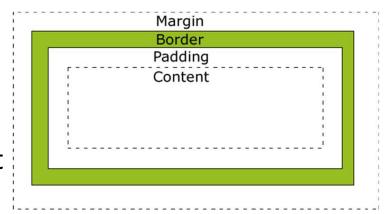
- Descendant selector: [a space]
 - ul li <= applies to list elements inside an unordered list
 - div .foo <= applies to any element with the class foo inside a div
- Direct Child selector: >
 - div > span <= applies to any span that is a direct child of a div
- Adjacent Sibling selector: +
- General Sibling selector: ~
- pseudo-class
 - a: hover

Box Model



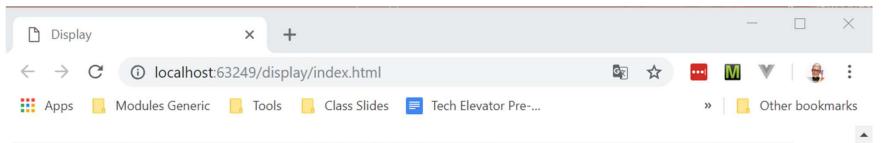
Box Model

- Every element in web design is a rectangular box.
- We use the content, padding, border, and margin to calculate the amount of space that an element takes up.
- Margin is the space outside something. It does not affect the size of the box but affects other content that interacts with the box.
- Padding is the space inside something.



Block or Inline?

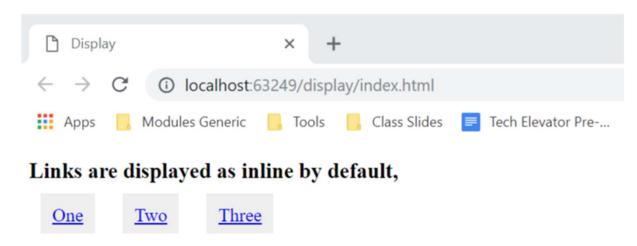
- Block elements (div, h1-h6, p, form, header, footer)
 - Always starts on a new line
 - Takes up full width available



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Block or Inline?

- Inline elements (a, span, img)
 - Do not start on a new line
 - Takes up only as much width as necessary
 - It accepts margin & padding while ignoring height & width.



inline-block is very similar to inline but it allows you to set a width and height.

Positioning elements on a page

- Normal flow of a page:
 - Left to right
 - Top to bottom
- Relative position means relative to where it would otherwise be positioned in the normal flow
 - Can set top, right, bottom, and left
- Absolute position will place the element relative to the parent ancestor (i.e. containing element) exactly where you specify.
 - These elements are removed from the flow of the page.
 - Setting both top and bottom, or both left and right, you can "stretch" an element's dimensions.
- Fixed position is relative to the browser window and does not scroll with the page.
 - setting the top, right, bottom, and left

Finally, float.

The float property specifies if the element should be taken from the normal flow and placed along the left or right-side of the container. Text and inline elements will wrap around it.

- none element does not float
- **left** element floats to left of its container
- right element floats to right of its container
- inherit element inherits float direction of its parent
- Floated elements automatically display as block

WHAT QUESTIONS DO YOU HAVE?





Reading for tonight:

CSS Grid



