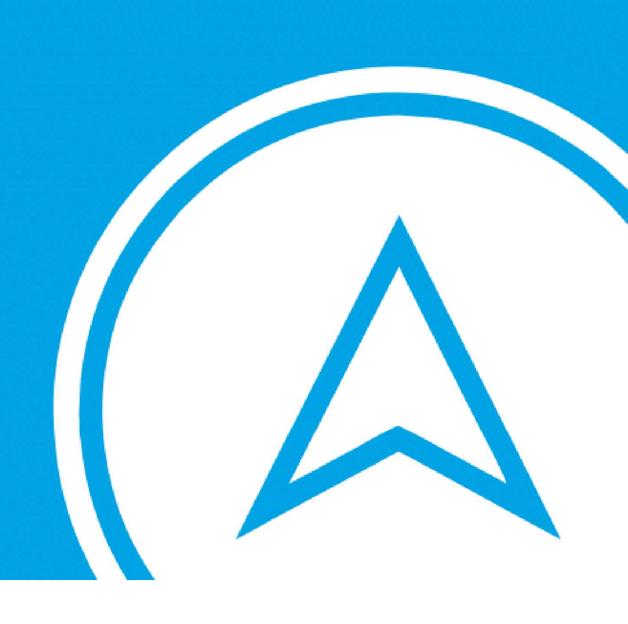
**MODULE 3: FRONT END** 

Styling with CSS





# Simple HTML Document



## 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**

Туре	Example
Universal	*
Element	<pre>body {     background-color: green; }</pre>
ld	#slug_1
Class	<pre>.bigBorder{     border: double; }</pre>

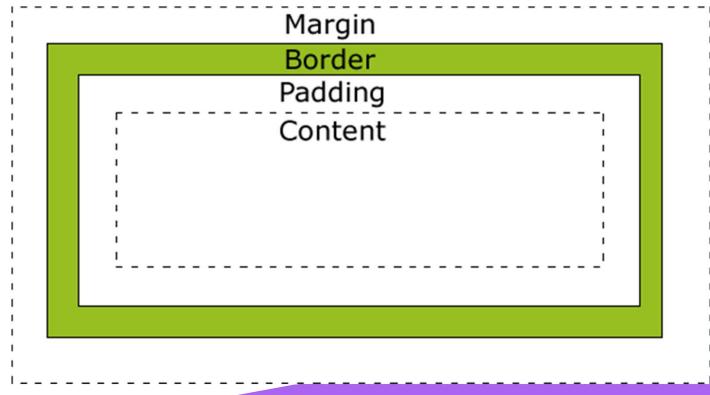
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## Fancy CSS Selectors

- 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</li>
- Direct Child selector: >
  - div > span <= applies to any span that is a direct child of a div</li>
- Adjacent Sibling selector: +
- General Sibling selector: ~
- pseudo-class
  - a: hover



## **Box Model**



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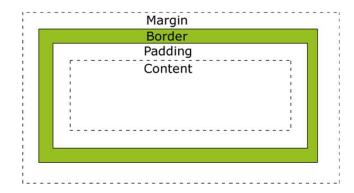
#### Box Model

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.

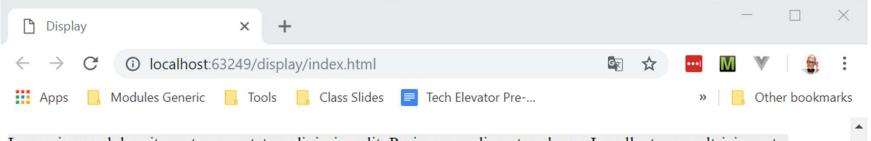
Padding is the space inside something.





#### 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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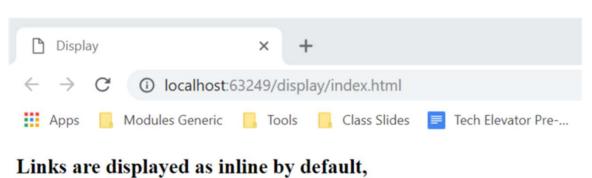
### Block or Inline?

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.



One Two Three

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
- Sticky toggles between relative and fixed, depending on the scroll position. It is positioned relative until a given offset position is met in the viewport then it "sticks" in place (like position:fixed).



## 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** 

