

Website Development Notes

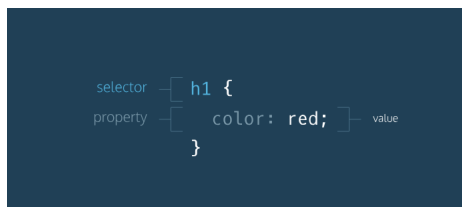
Muhammad Ali

1 HTML notes

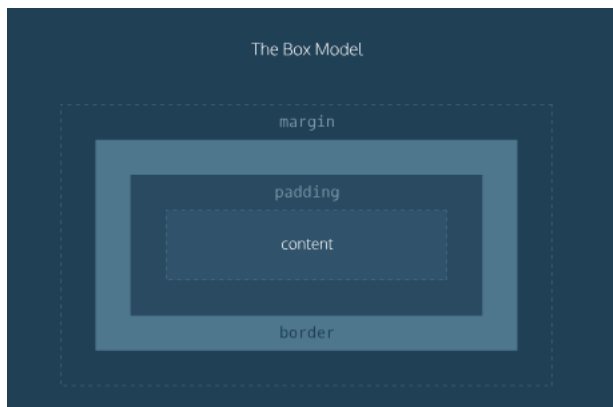
Consider the `<header>... </header>` tag which is usually used to identify content that precedes the primary content of the web page and often includes branding, navigation elements, search forms, and similar content.

`<nav>... </nav>`: defines a set of navigation links usually for major block of navigation links.

2 codecademy: CSS



2.1 The box model



Content: includes text and other media

padding: *as it looks like*

border: outline of an HTML page element. *picture frame that contains the element* use like
`p { border: 2px [solid, dotted, dashed] [black, blue ...]}`

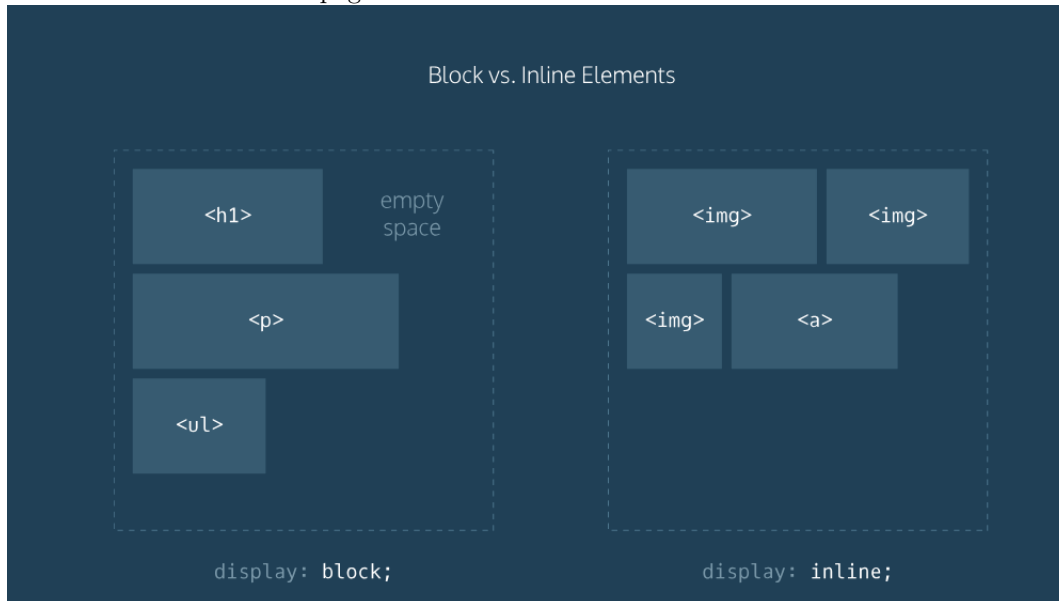
margin: space b/w HTML page element and **next nearest element**.

Also, doing something like `p {margin: 20px}` will create spacings on each side of an element.

You can do **margin-top**, **margin-bottom**, **margin-left**, **margin-right**.

2.2 Block vs Inline Elements

Allows to control the boundaries and space for individual HTML elements. It determines how HTML elements move around in the page.



These are properties for the css selector

display: [none, inline, block, inline-block]

1. **block:** HTML heading, paragraph, unordered list
2. **inline:** HTML image and anchor elements

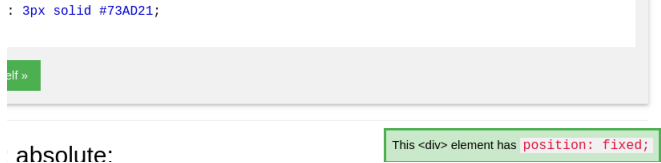
position: [static, relative, fixed, absolute, sticky]

1. **static:** always positioned according to normal flow of page.
2. **relative:** Setting top, right bottom, and left properties of a "relative" positioned element will adjust it away from its normal position.

Setting the top, right, bottom, and left properties of a relatively-positioned element will cause it to be adjusted away from its normal position. Other content will not be adjusted to fit into any gap left by the element.

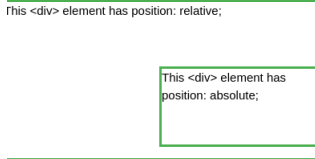
This <div> element has position: relative;

3. **fixed:** Just keeps some HTML element in the same place even when you're scrolling. You can use **top**, **bottom**, **right**, **left** to position it.

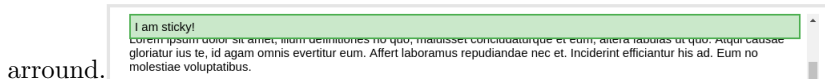


4. **absolute:** positioned relative to the nearest positioned ancestor (instead of viewport like fixed)

here is a simple example:



5. **sticky:** toggles between relative and fixed depending on the scroll position. Basically just follows you



2.3 Using Float and Flex

Float

The float property is used for positioning and formatting content. Supports **left**, **right**, **none**, and **inherit**

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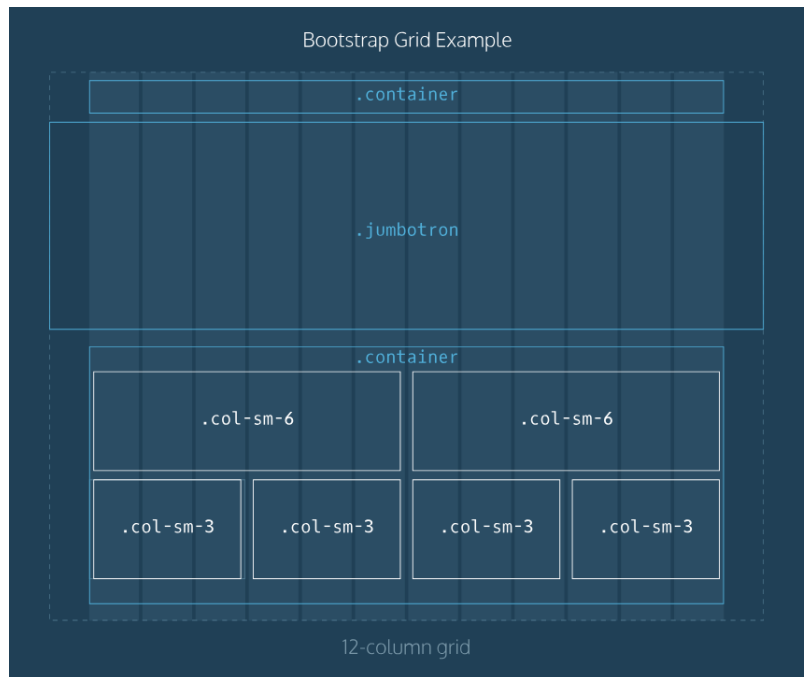
Flex

display: flex; Makes a flex container that makes the display flexible.

Flex container properties

1. flex-direction: properly defines which direction the container wants to stack the flex items with values **row**, **row-reverse**, **column**, **column-reverse**, **initial**, **inherit**.
2. flex-wrap: specifies whether the flex items should wrap or not with values **nowrap**, **wrap**, **wrap-reverse**, **initial**, **inherit**
3. flex-flow: property is short-hand for flex-direction and flex-wrap with values **flex-direction**, **flex-wrap**, **initial**, **inherit**.
4. justify-content: aligns the flex container's items when the items don't use all available space on the horizontal axis with values **flex-start**, **flex-end**, **center**, **space-between**, **space-around**, **initial**, **inherit**. Note: flex-start and -end position the items at start and end of container
5. align-items: Specifies the default alignment for items inside the container with values **stretch**, **center**, **flex-start**, **flex-end**, **baseline**, **initial**, **inherit**.
6. align-content: modifies the behavior of the flex-wrap property. Similar to align-items but aligns flex lines instead of flex items with values **stretch**, **center**, **flex-start**, **flex-end**, **space-between**, **space-around**, **initial**, **inherit**.

2.4 Bootstrap



This sizes css elements in a specified grid pattern and allows for you to have more dynamic webpages with the "."..." referring to class elements to include in the html elements.