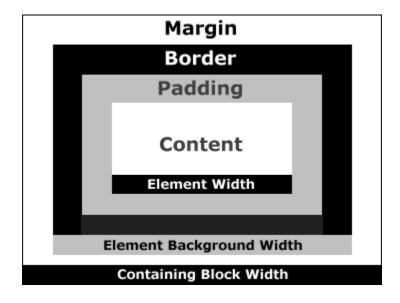
IWDD100

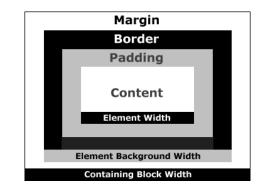
Lesson 3 CSS Layout

The Box Model

 In order to layout pages properly with modern CSS, you'll need to understand the box model!



Margin and Padding



```
margin: 20px;
```

Put a 20 pixel margin around the element or on each side of the element if the element is inline

```
padding: 50px;
```

Put 50 pixels of padding around the element or on each side if the element is inline

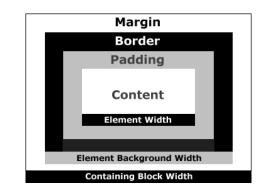
```
padding-right: 10px; margin-left: 40px;
```

Append -right, -left, -top, -bottom to be more specific

```
padding: 20px 10px; margin: 100px 30px;
```

Shorthand to specific padding on top and bottom then padding on left and right

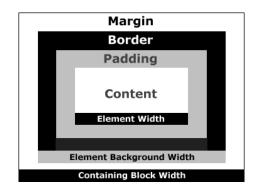
Margin and Padding



```
width: 900px;
margin: 0 auto;
```

- A popular "trick" to create a website with a centered block of content and a gutter on either side of the content.
- Generally, these attributes are set on a div with the id wrapper
- Setting the left and right margin to auto will only work if a width is set

Border



```
border-style: dashed;
```

Gives the border a dashed style. Other possible values include dotted, solid, double, groove, ridge, inset, and outset

```
border-width: 10px;
```

The border should be 10px wide

```
border-color: #111111;
```

Gives the border a gray-ish color specified using a hex code

```
border: 1px solid red;
```

Puts a 1 pixel solid red border around an element, shorthand for all of the above

inline VS block

```
display: block;
```

The element is displayed as a block, just like a tag is, tolerates no elements aligned next to it unless float is used

```
display: inline;
```

The element is displayed inline, inside the current block on the same line as other elements it is near

```
display: inline-block;
```

A combination of the two which allows a block to be next to another block, but still have vertical padding and margins

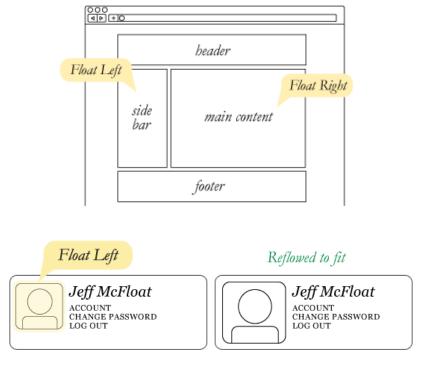
float

float: left;

Move an element all the way to the left side of its container. Have all other elements flow around it.

float: right;

Move an element all the way to the right side of its container. Have all other elements flow around it.



clear: both;

Remove the effects of a floated container, applied to an element after a floated container to clear the effects of using float

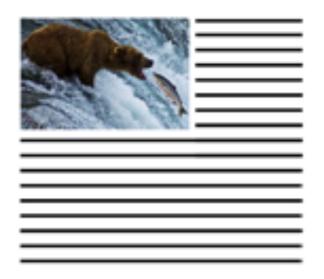
Using float for page layout

- To create a two-column page layout, float the first and second column left
- Try resizing the page to a smaller width the second column will collapse under the first (left) column

```
float: left; float: left;
```

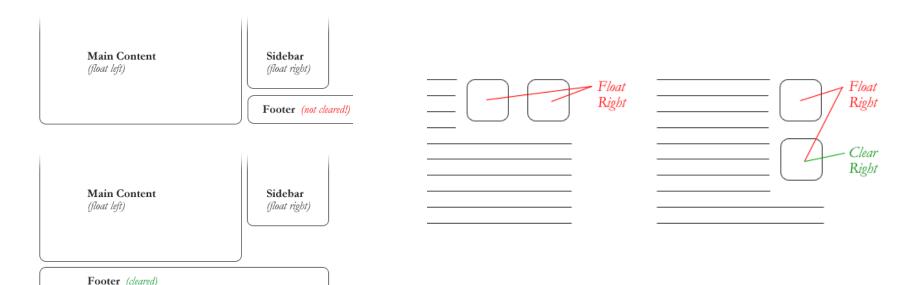
Using float for page layout

- To add an image to the page with text flowing around it, float it left
- Try adding some margin-right and marginbottom to the image



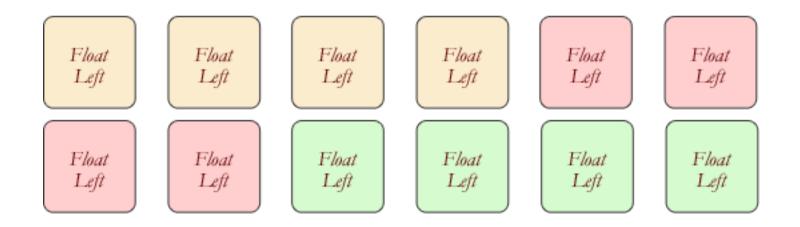
Using clear for page layout

- The clear property will move the set element down past surrounding float property elements
- clear has 4 values: both, left, right and none (default)



Using float for page layout

- You could use float: left; to create a dynamic image gallery
- float each image left and give it a margin-right



Positioning with CSS

- Using the CSS position attribute, you can use X and Y values to move elements around the screen based on different frames of reference
- There are four possible values for position:

```
static /*This is the default value*/
fixed
absolute
relative
```

left, right, top, & bottom

- left, right, top, & bottom are used to specify an offset, the reference point of which is determined by the type of positioning (fixed, absolute, relative, etc.)
- For left, offset values that are positive will move your element to the right while negative values will move it to the left.
- right does the opposite from the other side of the screen
- For top, offset values that are positive will move your element down while negative values will move it up
- bottom does the opposite from the bottom of the screen

fixed

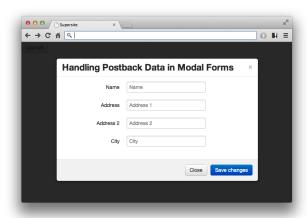
- Using position: fixed; your element will be positioned relative to the browser window
- The element will always be in the same place on the screen regardless of if the user scrolls
- position: fixed; is often used for "social media sharing bars" so the user has the option to scroll regardless of where they are on the page

relative

- Using position: relative; you can position your element relative to where it would normally be on screen
- The element is still in the normal "flow" of the page, it still takes up space
- Works well to make small changes in position unachievable through margin or padding

absolute

- Using position: absolute; you can position your element relative to the entire page
- The element will not be in the normal "flow" of the page, it will not take up space
- This is how "modal" elements are created



Putting it all together

Create a fake website for a newspaper,

"The New York Code + Design Academy Times"

- There should be two pages:
 - Home page, where 10 fake articles are listed in a two-column layout they should all link to:
 - An example article with a link to Facebook that stays on the page no matter how much the page is scrolled
 - The example article should have a photo with text that wraps around the photo (hint: use a float!)
- Use the margin: 0 auto; width: 900px; "trick" to make the pages look nice
- If you finish the above, have fun with CSS making the newspaper look as professional as possible!
- Don't worry about any of the actual text just use lorem ipsum