CSS DIVs, display, and other tricks

Review - IDs and Classes

IDs

The ID attribute is used to create a unique id for an element

As good practice an ID should be applied to only one element on a page

It is written as follow:

This paragraph has a unique ID attribut@/p>

Using an ID

```
In CSS to define an ID you use #
     #paragraphOne {
        background-color: black;
        color: white;
        text-align: left;
```

Classes

The class attribute is used to create a shared "ID" across multiple elements

As good practice a class should be applied to more than one element on a page

It is written as follow:

This paragraph has a unique class attribute/p>

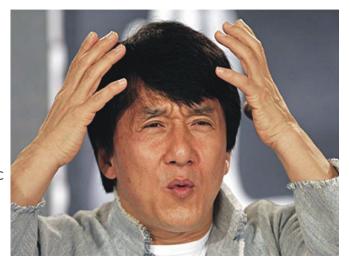
Using a class

In CSS to define a class you use.

```
.paragraphClass {
  background-color: blue;
  color: black;
  text-align: right;
}
```

What's the difference?!!?!?

- IDs are typically used when you want to write code for a specific element (IDs will become VERY important when we get into Javascript)
- Classes are used for when you want to apply code to multiple elements



A New Element - DIV

DIVs are empty containers

A DIV does not add or remove anything from a page

DIVs are a great to help style a page

DIVs will become more important in later lessons

Sizing an element such as a DIV or IMG

height:300px;

width:400px;

Sizing issues:

Add 50px padding to one of your divs.

padding:50px;

Now make the divs the same size without changing the padding.

height:???px;

width: ????px;

Why is this happening?

By default, the width and height of an element is calculated like this:

width + padding + border = actual width of an element

height + padding + border = actual height of an element

This means: When you set the width/height of an element, the element often appears bigger than you have set (because the element's border and padding are added to the element's specified width/height).

Source: https://www.w3schools.com/css/css3 box-sizing.asp

How do we solve this?

```
* {box-sizing: border-box;}
```

If you set box-sizing: border-box; on an element, padding and border are included in the width and height

Arranging DIVs (or other elements) on a page

Mark MacCabe

My Work	Iı
My Hobbies	Ti ga Bi
My Studies	D
My Life	

Indie Game Development

About Me

This is all about me. I live in Bentonville, AR. I work in the Artificial Intelligence field. I also teach Introduction to Web Design. I am teaching myself Unity 3D Game Engine. I have a goal to be financially independent in 5 years.

Positioning on webpages

Paragraph does will take up the full span of a page

Hello
Hello
Hello

Using the CSS display property

```
{display: none;} - removes the element

{display: inline;} - displays similar to a span - inline with other elements

{display: block;} - displays similar to a , starting a new line and claiming the entire block

{display: flex;} - block-level flex container (see next slide)
```

More about flex:

```
div {
    display: flex;
    flex-direction: row;
}
Other Options: row | row-reverse | column | column-reverse | inherit
```

Another Cool Trick - overflow

The overflow property specifies whether to clip the content or to add scrollbars when the content of an element is too big to fit in the specified area.

The overflow property has the following values:

- visible Default. The overflow is not clipped. The content renders outside the element's box
- hidden The overflow is clipped, and the rest of the content will be invisible
- scroll The overflow is clipped, and a scrollbar is added to see the rest of the content
- auto Similar to scroll, but it adds scrollbars only when necessary

Source: https://www.w3schools.com/css/css overflow.asp

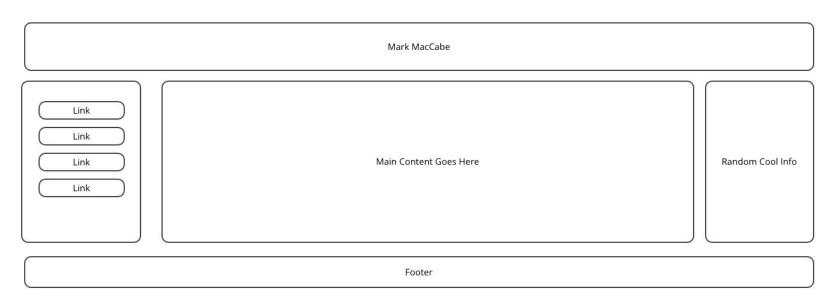
Example of overflow: visible

By default, the overflow is visible, meaning that it is not clipped and it renders outside the element's box:

You can use the overflow property when you want to have better control of the layout. The overflow property specifies what happens if content overflows an element's box.

Let's finish our menu page

Launch Page / Menu Design



Homework

- Finish your menu page
- Read about the following topics:
 - CSS Sizing: https://www.w3schools.com/css/css dimension.asp
 - Float: https://www.w3schools.com/cssref/pr class float.php
 - o Position: https://www.w3schools.com/css/css positioning.asp