Learn to Code

Session 2 HTML with CSS

Reminder

https://atom.io/

https://craigmayhew.github.io/tutorials/

Pro Tip: Press ctrl + u in Chrome to view the HTML of <u>any</u> web page on the internet. List of Tags: http://www.w3schools.com/tags/default.asp

```
<!DOCTYPE html>
<html>
 <head>
    <meta charset="UTF-8">
    <title>Craig's Tutorial Page</title>
 </head>
 <body>
    This is the content of the page, and <a href="https://www.google.com/">this is a link to
Google</a>.
    This is an example of <b>bold</b>, <u>underlined</u>, <i>italics</i> and a
<u><b>combination</b></u>. All of this is within a paragraph tag.
 </body>
</html>
```

```
<!DOCTYPE html>
<html>
 <head>
    <meta charset="UTF-8">
    <link rel="stylesheet" type="text/css" href="theme.css">
    <title>Craig's Tutorial Page</title>
 </head>
 <body>
    This is the content of the page, and <a href="https://www.google.com/">this is a link to
Google</a>.
    This is an example of <b>bold</b>, <u>underlined</u>, <i>i>italics</i> and a
<u><b>combination</b></u>. All of this is within a paragraph tag.
 </body>
</html>
```

Automate, and you never need do it again.

Do it once, do it well.

Cascading Style Sheet (CSS 3)

```
body {
 background-color: grey;
.huge {
  font-size: 40px;
#cage {
  color: orange;
  font-weight:bold;
```

```
<!DOCTYPE html>
<html>
 <head>
   <meta charset="UTF-8">
   <link rel="stylesheet" type="text/css" href="theme.css">
   <title>Craig's Tutorial Page</title>
 </head>
 <body>
   This is the content of the page, and <a class="huge" href="https://www.google.com/"</pre>
>this is a link to Google</a>.
    This is an example of <b>bold</b>, <u>underlined</u>, <i>i>italics</i> and a
<u><b>combination</b></u>. All of this is within a paragraph tag.
 </body>
</html>
```

Cascading Style Sheet (CSS 3)

```
/* all elements with class="craig" that are nested within the one element with id="cage" */
#cage .craig {
 color: orange;
 font-weight:bold;
#cage b.craig {
  color: #0000CC;
  font-weight:bold;
/* a much more complex example, but not actually used in our html */
#cage p b.craig:first {
```

```
<!DOCTYPE html>
<html>
 <head>
   <meta charset="UTF-8">
   <link rel="stylesheet" type="text/css" href="theme.css">
   <title>Craig's Tutorial Page</title>
 </head>
 <body>
   This is the content of the page, and <a class="huge" href="https://www.google.com/"</pre>
>this is a link to Google</a>.
    This is an example of <b>bold</b>, <u>underlined</u>, <i>i>italics</i> and a
<u><b>combination</b></u>. All of this is within a paragraph tag.
 </body>
</html>
```

Specificity!

```
High score wins!
Start at 0.
Add 1000 for any style attribute (BUT DON'T USE THESE).
Add 100 for each #id
Add 10 for each class/pseudo-class
Add 1 for each element
```

Specificity!

```
/* 100 + 10 */
#cage .red {
  color: red;
}

/* 100 + 1 + 10 */
#cage div.yellow {
  color: yellow;
}
```

Anti Patterns

Style Attribute

Don't use it. Ever.

```
<a href="https://www.google.com/" style="color:green;">this is a link to Google</a>
```

!important

Don't use it. Almost never.

```
#cage .craig {
  color: orange !important;
  font-weight:bold;
}
```

Do you even hex?

Hexadecimal

```
Dec: 0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15
Hex: 0,1,2,3,4,5,6,7,8,9,A, B, C, D, E, F
9 = 9
10 = A
16 = 10
64 = 40
255 = FF
```

Colours

colour: black colour: red

colour: #000000 colour: #ff0000

colour: rgb(0,0,0) colour: rgb(255,0,0)

http://www.w3schools.com/tags/ref_colorpicker.asp

FAQ

- ~230 style properties
- You can have multiple CSS files per page.
- The css files can get very long and complicated.
- You can apply an open source css theme to your page / website / app. Make sure to check the license!
- Not everyone has the same fonts.
- "Red" might not be the same red for everyone.
- #FFF is shorthand for #FFFFFF
- There are 52 different CSS selectors.
- class="onething anotherthing thirdclass" is valid. However, the order they are listed has no effect on priority. The priority is handled by specificity within the css file(s).
- Specificity is complicated.

Fin! Next Step

```
Create your own css theme. Background color? background image? Font?!
```

```
https://www.google.com/fonts
```

```
background-image: url("http://craig.mayhew.
io/uploads/2014/04/reprap_mendel_felix_small.
jpg");
```