

# RCSA WEB DEV WORKSHOP

**CSS Tutorial and How-To**

# WHAT IS CSS AND WHY DO WE NEED IT?

- CSS is a style language that helps control the presentation of websites.
- CSS can modify fonts, colours, margins, lines, height, width, background images, advanced positions, etc. and works in conjunction with HTML
- We can create a single style-sheet that controls how every page on the site will be viewed.

CSS helps **generalise** your webpage; you can specify default behaviour for objects to avoid having to re-code for each individual occurrence.

# BOOTSTRAP CSS

(QUICK NOTE!)

- Recommended for the experienced CSSer!
- Don't change this all that much unless you know what you're doing and the specific changes you want to make
  - **Git note:** When making any changes (but especially here!) changes first! That way if you make a mistake, you always have a clean version to revert to!
- Resources for additional help posted on Facebook event and throughout this presentation

# CSS VS. HTML: MOREOVER GENERALISING

	CSS *would have corresponding code linking it to the HTML (shown later)	HTML
Background color	<pre>body {     background-color:     light-grey; }  h1 {     color: blue; }  p {     color:green; }</pre>	<pre>&lt;body style="color: light-grey;"&gt; &lt;h1 style="color:blue;"&gt;This is a Blue Heading&lt;/h1&gt;  &lt;p style="color: green;"&gt; This is my paragraph. It talks about how much I love cupcakes.&lt;/p&gt;  &lt;/body&gt;</pre>
	-simpler for multiple uses, ie: make all of my headers blue	-simpler for one time use, ie: make <b>this</b> header blue

# CSS VS HTML CONT.

	CSS	HTML
Font	<pre>h1 {     color: blue;     font-family: verdana;     font-size: 12px; }  p {     color: red;     font-family: courier;     font-size: 18px; }</pre>	<pre>&lt;h1 style= "font-family:ultra; color:green; font-size=12px;"&gt;<b>This is some text!</b>&lt;/h1&gt;  &lt;p style= "font-family:courier; color:red; font-size=18px;"&gt;This is my paragraph. It talks about how much I love cupcakes.&lt;/p&gt;</pre>

So let's say we've decided we want to use a text color or font more than once or for a large section of our page. We should use CSS! But how do we connect it to our HTML code?

# DIV CLASSES

```
<div class="quoteBox">  
    "This is an example  
    quote."  
</div>  
  
<div class="specialQuote">  
    "This is a special  
    Quote."  
</div>
```

- Div's are special elements which you can style via CSS and then implement/link via HTML wherever you want that style to occur
- At left we have the HTML showing how to connect the CSS of two different div's to your webpage
- If you only create the CSS and don't connect it to your HTML somewhere, it won't show up!

# MAKING A QUOTEBOX

```
<div class="quoteBox">  
  
    "This is an example  
    quote."  
  
</div>
```



"This is an example quote."

```
.quoteBox {  
  
    font-family: times;  
  
    font-size: 18px;  
  
    color: #ccc;  
  
    background: turquoise;  
  
    padding: 10px;  
  
    border: 4px #ccc;  
  
}
```

# MAKING A QUOTEBOX

```
<div class="quoteBox">
```

“This is an example  
quote.”

```
</div>
```

“This is an example quote.”

Same name! Starts  
with a dot

```
.quoteBox {
```

```
    font-family: times;
```

```
    font-size: 18px;
```

```
    color: #ccc;
```

```
    background: turquoise;
```

```
    padding: 10px;
```

```
    border: 4px #ccc;
```

```
}
```



# MAKING A QUOTEBOX

```
<div class="quoteBox">
```

“This is an example  
quote.”

```
</div>
```

Make sure you always  
close your tags!

“This is an example quote.”

Same name! Starts  
with a dot

```
.quoteBox {
```

```
    font-family: times;
```

```
    font-size: 18px;
```

```
    color: #ccc;
```

```
    background: turquoise;
```

```
    padding: 10px;
```

```
    border: 4px #ccc;
```

```
}
```

# MAKING A QUOTEBOX

```
<div class="quoteBox">
```

“This is an example  
quote.”

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Make sure you always  
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.quoteBox {
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```
font-family: times;
```

```
font-size: 18px;
```

```
color: #ccc;
```

```
background: turquoise;
```

```
padding: 10px;
```

```
border: 4px #ccc;
```

```
}
```

Parameters  
are pretty  
self-  
explanatory  
If you're  
unsure of  
how to  
write them  
out,  
google! (or  
ask!)

# LET'S SEE IT IN ACTION (WITH AN EXAMPLE FROM ALBERT AT RCSA.BERKELEY.EDU)

Let's make some buttons!

1. Create a name for your div
2. Define how wide you want the buttons to be
3. Define the border color
4. Define the background color
5. Now, whenever you want to make a button, just apply this div class with:

```
<div class="albert">  
BUTTON NAME  
</div>
```

```
.albert{  
  
    width:100%;  
  
    border-color:white;  
  
    background-color: #1B7AD4;  
  
}
```



# TAGS

- Just like you can style and create new classes, you can also change the style of existing classes
- This can be useful if you want to modify headers, paragraph text, etc.
- Modify each header class by changing/creating CSS for **h#** (**h1**, **h2**, etc.)
- Modify the text for the entire body by changing/creating the **.body** class; modify paragraph text through **p**

# CSS AND HTML IN ACTION!

CSS	HTML
<pre>&lt;style&gt; h1 {   background-color:black;   color:white;   text-align:center;   padding:5px; } .section {   width:350px;   float:left;   padding:10px; } p {   font-color: black;   font-size:12px; } &lt;/style&gt;</pre>	<pre>&lt;body&gt;  &lt;h1&gt;City Gallery&lt;/h1&gt;  &lt;div class="section"&gt;  &lt;h1&gt;London&lt;/h1&gt; &lt;p&gt;London is the capital city of England. It is the most populous city in the United Kingdom.&lt;/p&gt;  &lt;/div&gt;  &lt;/body&gt;</pre>

# RECAP!

- CSS and HTML work together to help style your webpage!
- We use CSS to make our code more general; if we want to format our page a certain way multiple times, we only have to write the code once!
- Any CSS elements you modify have to be “linked” or “connected” in your HTML otherwise they won’t take effect
- You can use CSS to make new elements and modify existing ones
- Almost all CSS elements have the same/similar parameters; if you aren’t sure which parameters to modify, check online!

# MORE HELP?

- If you're interested in learning (a lot?) more: codecademy has an awesome interactive class on both CSS and HTML with some really solid examples!
- Wondering how to change that thing you really wanna change? This site is an awesome source for CSS/HTML parameters and also has a lot of examples covering basic to advanced material
  - [http://www.w3schools.com/html/html\\_css.asp](http://www.w3schools.com/html/html_css.asp)
- Questions? (: