



Cascading Style Sheets

Fall 2018 RCSA WebDev

Complete Version:

<https://docs.google.com/presentation/d/1cVZ0ecjSYbwphmSpb8uNNbGoZ5-dFXTf63XZ0DF7dJg/edit?usp=sharing>



What is CSS and Why do we use it?

- Mechanism for adding style (e.g., fonts, colors, spacing) to Web documents
- Works in conjunction with HTML
- Can control style of every single page of a website within a single style-sheet
- **Generalization:** can specify default behavior to avoid repetition in coding individual objects

CSS vs HTML

	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><body style="color: light-grey;"> <h1 style="color:blue;"> This is a Blue Heading </h1> <p style="color: green;"> This is my paragraph. It talks about how much I love cupcakes. </p> </body></pre>
	-simpler for multiple uses, ie: make all of my headers blue	-simpler for one time use, ie: make this header blue

CSS vs HTML

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

Div Class

```
<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 basically doesn't exist.

Div Class: Quote Box

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

“This is an example quote.”

```
</div>
```



“This is an example quote.”

```
.quoteBox {
```

```
font-family: times;  
font-size: 24px;  
color: #ccc;  
background: turquoise;  
padding: 10px;  
border: 4px #ccc;
```

```
}
```

Selectors

- Select HTML elements by tag, class, or ID.
- Multiple classes can be applied to a HTML element
- The more specific the selector the higher the precedence tag < class < ID
- Multiple selectors can be chained together raising specificity

```
1
2 ▾ h1{
3     color: maroon;
4 }
5
6 ▾ .title {
7     color: teal;
8 }
9
10 ▾ h2.destination{
11     font-family: cursive;
12
13 }
14
15 ▾ .description h5{
16     color: teal;
17
18 }
19
20 ▾ h5,p {
21     font-family: Georgia;
22 }
23
24 ▾ #banner{
25     color: red;|
26 }
```

```
1 <!DOCTYPE html>
2 ▾ <html>
3
4 ▾ <head>
5     <link href="./style.css" type="text/css" rel="stylesheet">
6 ▾     <title>This title is teal!</title>
7 </head>
8
9 ▾ <body>
10 ▾     <h1>Hello World is Maroon</h1>
11 ▾     <h5>The font is Georgia</h5>
12 ▾     <p>This font is also Georgia</p>
13
14 ▾     <h2 class="destination">This is in cursive.</h2>
15 ▾     <div class="description"> A random description.
16 ▾         <h5>This text is teal</h5>
17     </div>
18
19 ▾     <p id="banner"> This paragrah is red for some reason</p>
20 </body>
21
22 </html>
23
```



```
1
2 ▾ h1{
3     color: maroon;
4 }
5
6 ▾ .title {
7     color: teal;
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9
10 ▾ h2.destination{
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15 ▾ .description h5{
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17
18 }
19
20 ▾ h5,p {
21     font-family: Georgia;
22 }
23
24 ▾ #banner{
25     color: red;|
26 }
```

Hello World is Maroon

The font is Georgia

This font is also Georgia

This is in cursive.

A random description.

This text is teal

This paragrah is red for some reason

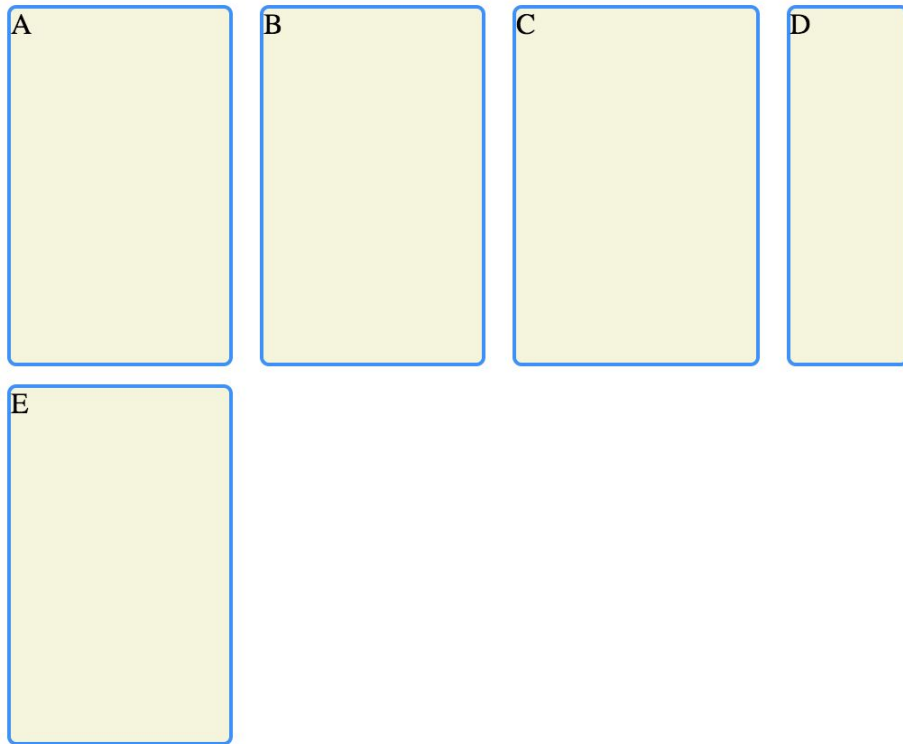
Positioning

- **position: static;** default, positioned according to normal flow of page
- **position: relative;** may be positioned using top, left, bottom, right properties
- **position: fixed;** same position in any viewport even if scrolling, may use top, left, bottom, right properties
- **position: absolute;** same position relative to nearest ancestor, may use top, left bottom, right
- **position: sticky;** positioned relative until user offset makes it become fixed
- **z-index: n;** integer value, larger will be be more in foreground

Grid

```
<body>
  <div class="grid">
    <div class="box a">A</div>
    <div class="box b">B</div>
    <div class="box c">C</div>
    <div class="box d">D</div>
    <div class="box e">E</div>
  </div>
</body>
```

```
.grid {
  height: 500px;
  width: 500px;
  display: grid;
  grid-template-columns: 25% 25% 2fr 1fr;
  grid-template-rows: 200px 200px;
  grid-gap: 10px 15px;
}
```



Examples

1. HTML only
2. HTML + CSS
3. Inspect!

Useful Links

- Demos / Tutorials:
<https://www.w3schools.com/Css/>
<https://www.codecademy.com/learn/learn-css>
- If for some reason you want to be extra:
<https://www.w3.org/Style/CSS/learning>

Any Questions?