

Reminders

Topics

- Cascading Style Sheets
- Bootstrap

Text Editors

- Sublime: https://www.sublimetext.com/
- Brackets: http://brackets.io/
- Atom: https://atom.io/
- Komodo IDE: https://www.activestate.com/products/komodo-edit/
- Or any normal text editor.

What is a Style?

- Objects in an HTML document have "style" attributes
 - Font, font size, font color assigned to headings, paragraphs
 - Background color
 - Size and shape of images
 - Hyperlinks, colors, behaviors
 - Placement of objects on the page

Applying Style

Tag

Tag-level: Style attributes within a tag on a page.

Very
 Granular. Difficult to maintain, No
 Consistency

Page

Page-level: Style defined within <head> of each page.

 Difficult to maintain across many pages, No consistency

Site

Site-Level: Within an external file, pulled into each page for an entire website

- Easy to maintain
- Saves time for support & maintenance
- Saves page load time
- Enables consistency across the website

Cascading Style Sheets

- What is a style sheet?
 - The style sheet is an EXTERNAL document (.css) containing the rules of style to be applied to your document. You "link" to it to bring it into one or more pages.
- Why do we use them?
 - Consistency from page to page
 - Faster, easier page construction

Guidelines for a Style Sheet

- Should not contain any HTML tags
- Saved as file with a type/extension of ".css"
- Style Sheet
 - Reference it and bring it into your document:

Cascading Style Sheets

- Using the <style> tag
 - Entered in <head> section
 - Applies to entire document
- Style rules are not HTML
- Rule Syntax
 - selector the tag that the rule applies to
 - { } Braces to contain the rule
 - Property:value pair
 - Ends with semicolon

Examples

- Let's Look at Some Examples
- www.w3schools.com/css

Examples

```
<style type="text/css">
   body {
    font-size: 16pt;
         color: blue;
    background-color: pink;
   h1{
    font-size: 24pt;
    color: black;
   p {
    margin-left: 10%;
    margin-right: 10%;
</style>
```



Types of Style Rules

- element (tag)
- # id
- .class
- Element.class
- Group (multiple selectors)
- Nested (selector within a selector)

Types of Style Rules

- A class allows you to set different styles for the same tag
- Example:

```
<style>
     h1.majorheading {
     font-family: arial;
 color: blue;
</style>
then you refer to the class in the tag:
<h1 class="majorheading">
```

Style Sheets

Multiple selectors are OK

```
h1, h2 {
color: purple;
text-align: center;
}
```

Nested selectors are OK

```
div > h1 {
color: red;
}
```

ID References are OK

```
<h1 id="beginning">
<style>
    #beginning {color: red;}
</style>
```

Overriding Styles

- "!important" override indicator
 - For a rule that must NOT be overridden in cascade
 - "!important" must follow the rule

Some Style Properties

Font Size

Font Family

Font-weight

Texttransform Wordspacing Letterspacing

Text-align

Text-indent

Color

Backgroundcolor Backgroundimage

Box properties

Bootstrap

- A style library
- Easy formatting using templates
- Easy transition from computer-based viewing to phone-based viewing i.e. responsive, mobile-first websites
- https://getbootstrap.com/docs/4.3/getting-started/introduction/

Using Bootstrap



INCLUDE AN EXTERNAL CSS SHEET FROM A CDN (CONTENT DELIVERY NETWORK)



INCLUDE A JQUERY (JAVA SCRIPT) LIBRARY (ONLY NEEDED FOR CERTAIN JS PLUG-INS)



INCLUDE A CLIENT JAVA SCRIPT ENGINE FROM A CDN

Using Bootstrap

<!-- Latest compiled and minified CSS -->

```
k rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"
integrity="sha384-
ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T"
crossorigin="anonymous">
```

<!- Javascript & jQuery library -->

<script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"
integrity="sha384-</pre>

UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dlHNDz0W1" crossorigin="anonymous"></script>

<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"
integrity="sha384-JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM"
crossorigin="anonymous"></script>



Bootstrap Grid System

Bootstrap Grid System

Bootstrap's grid system allows up to 12 columns across the page.

If you do not want to use all 12 columns individually, you can group the columns together to create wider columns:

| span
1 |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| span 4 | | | | span 4 | | | | span 4 | | | |
| span 4 | | | | span 8 | | | | | | | |
| | | spa | ın 6 | span 6 | | | | | | | |
| span 12 | | | | | | | | | | | |

Bootstrap's grid system is responsive, and the columns will re-arrange automatically depending on the screen size.

Bootstrap Grid System

Grid Classes

The Bootstrap grid system has four classes:

- xs (for phones screens less than 768px wide)
- sm (for tablets screens equal to or greater than 768px wide)
- md (for small laptops screens equal to or greater than 992px wide)
- 1g (for laptops and desktops screens equal to or greater than 1200px wide)

The classes above can be combined to create more dynamic and flexible layouts.

Questions?

