CASCADING STYLE SHEETS

WEEK 5 - 09/25/2019

NOTE

- Recitation deadlines have been changed to provide you 1 week to complete your lab exercises.
- They will be due right before the following week's recitation
- This week's recitation: HTML & CSS

WIREFRAMES

How a team designs a web site

The wireframes tell the story

Contains important layout and content, not style

No color; no graphics, no images

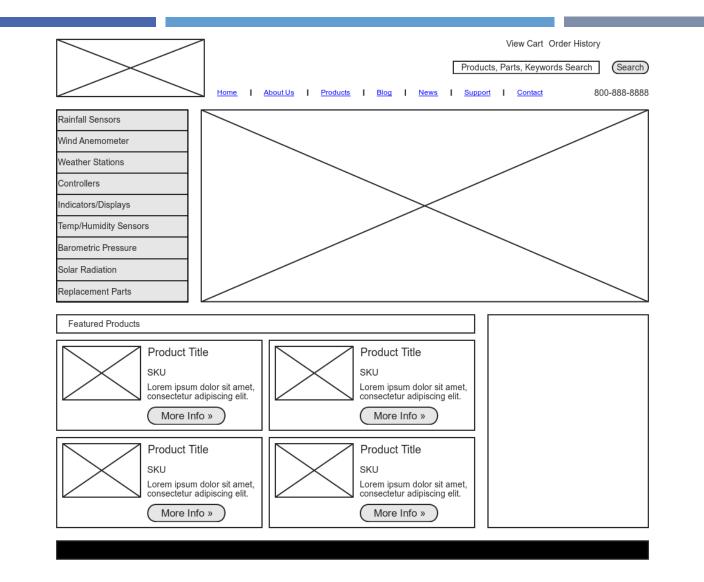
Includes

- Information design (describes what's being presented)
- Navigation design (describes links and nav menus)
- Interface design (drop down menus, buttons, form fields)

WIREFRAMES

- Your Website Begins with a Story
- https://www.youtube.com/watch?v=7LKPVAIcDXY

 (Jump to 2:45)
- https://www.youtube.com/watch?v=Z5-a9uQkzac



Links -1255 what is account? Articles Interineus cusestudies Videos Regowners Évents GLOBAL NAV. < H17 The Account Planning Group (8) CORETHOUGHT: SHAPLING Nonigable, promo Frez: Flash + non-4ash ORB CRES? MIN sparroungidess Snotaring winks to Fowbook Twitter presend FEATURE HEADLINE HETADLINE search Find I County ? Calendar. possibly anomage. MOST POPULAR DECEMENTS lead-ins to 3-5 82 other posts The ways you can get unrived GHOSIG gudgest suride PROTEO contribute an article APE EVOICES Consil address phoserbe Mount the APG 1060 GLEVELL COMERK POSTER social presence. Dearm Contact Termil Conditions SHEMED Credity Probal mandaton notex

WIREFRAMES

- Free Wireframe Tools
- https://www.designforfounders.com/free-wireframe-tools/

WHAT IS 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

EDITORS YOU COULD USE

- 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..

APPLYING STYLE

Tag

Page

Site

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

 Very Granular. Difficult to maintain, No Consistency Page-level: Style defined within <head> of each page.

 Difficult to maintain across many pages, No consistency Site-Level: Within an external file, pulled into each page for an enitre 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:

```
<head>
    < link rel="stylesheet" type="text/css"
    href="mystyle.css">
    </head>
```

CASCADING STYLE SHEETS

Hierarchy of Applying Style

- Child tags Inherit Style from Parent tags
- Detail-Level Overrides High-Level



If I have a style defined for a tag at the page level and at the tag level, which one do you think would take precedence?

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;
   hI{
    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)

CLASSES

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

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

STYLE SHEETS

Multiple selectors are OK

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

Nested selectors are OK

```
div > h I {
  color:red;
}
```

ID References are OK

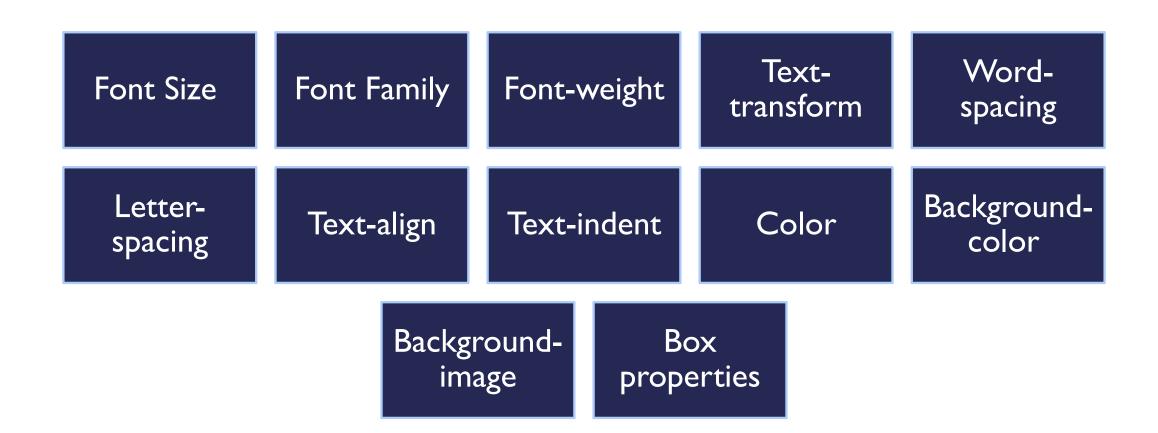
```
<h1 id="beginning">
<style>

#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



BOOTSTRAP

- A style library
- Easy formatting using templates
- Easy transition from computer-based viewing to phone-based viewing
- https://getbootstrap.com/docs/4.3/gettingstarted/introduction/

BRINGING BOOTSTRAP INTO YOUR PAGES







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

BRINGING BOOTSTRAP INTO YOUR PAGES

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

k rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.cs
s" integrity="sha384ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2
MZw1T" crossorigin="anonymous">

<!- Javascript & jQuery library -->

<script src="https://code.jquery.com/jquery-3.3.1.slim.min.js"
integrity="sha384q8i/X+965DzO0rT7abK4IJStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo
" crossorigin="anonymous"></script>

<script

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

UOŽeŤ0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dlH NDz0W1" crossorigin="anonymous"></script>

<script

src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js" integrity="sha384-

JjSmVgýd0p3pXB1rRibZUAYolly6OrQ6VrjIEaFf/nJGzlxFDsf4x0xIM+B07jRM" crossorigin="anonymous"></script>

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								
span 6					span 6							
span 12												

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

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)
- lg (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.