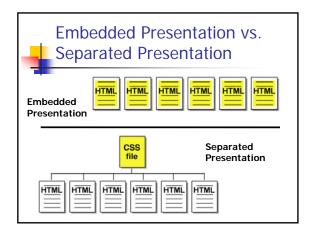




Separating Content from Presentation

- All web pages have two parts
 - The page content
 - The presentation of that content
- Separating these two parts will allow:
 - Presentation that is modifiable in one place
 - Code that is more accessible to many device types
 - Less code on the web page that is easier to understand and maintain





External CSS File

- A website can contain any number of stylesheets
- Must be linked to the web page
- Usually contains the following types of style rules:
 - Selectors
 - IDs
 - Classes
 - Pseudo-classes



Selectors in CSS

- If you want the style of every HTML tag on your page to have a certain look or style add that selector
- Most common selectors
 - body
 - p
 - Headings: h1-h6
 - ul, ol
 - table, tr, th, td



Everybody needs some "body"

- Every external CSS file should have a body selector
- What goes in it?
 - margin for the page
 - background color
 - Default font, font-family, font-size, color
 - Default alignment (text-align)
 - Maybe a border



Selectors in a CSS file

```
body
{ margin: 5px; font-family: Arial;
  font-size: 12px; color: #006600; }
h3
{ text-align: center; color: #CCCCCC; }
ul
{ font-family: Times New Roman; color: #FF22FF; }
```



IDs in CSS

- An ID is used to define a style on a web page element or group of elements
 - <div id="header">
- An ID must be unique on a page
- IDs are usually used to define layout areas on a web page
- In the stylesheet, an ID uses the # character
 - #header { color: #CCCCCC; }



IDs in a CSS file

```
#container
{ text-align: center; width: 955px;
    margin: 0px auto;

#header
{ background-color: #00600; padding: 5px; }

#content
{ text-align: left; background-color: #FFFFFF; }

#footer
{ text-align: center; background-color: #00CC00; }
```



Classes in CSS

- A class is a user-defined style that is applied to any element or group of elements on a page
 - My text
- Unlike an ID, a class can be used multiple times on a web page
- In the stylesheet, classes must begin with the . character
 - For example .bigtext { }



Classes in a CSS file

```
.centerthis
{ text-align: center; }
.verybigtext
{ font-size: xx-large;}
.redtext
{ color: #FFFFFF; }
.nounderline
{ text-decoration: none; }
```



Pseudo-Classes in CSS

- The anchor tag can have several states that can each have a style associated with it
- Pseudo-classes for default anchor tag styles should always be added to the stylesheet
- You can also add pseudo-classes to other classes or selectors



Pseudo-Classes

- The order of the pseudo-classes appear in the CSS file is important
- The a:link must always appear first
 - a: link the non-visited appearance
 - a: visited the visited appearance
 - a: hover appearance when the mouse hovers over the link
 - a:active appearance when the link is clicked

```
a: link
{ color: #FFFFFF; text-decoration: none; font-size: 12px; }
a: visited
{ color: #006600; text-decoration: none; }

a: hover
{ color: #CCCCCC; text-decoration: underline; }
a: active
{ color: #2233CC; text-decoration: underline; }
```

Pseudo-Classes combined with a Class a.button: link { color: #FFFFFF; text-decoration: none; font-size: 12px; } a.button: visited { color: #006600; text-decoration: none; } a.button: hover { color: #CCCCCC; text-decoration: underline; } a.button: active { color: #2233CC; text-decoration: underline; }



Steps for a CSS based site

- Add unstyled content to the web page using HTML tags
 - Remember HTML formatting like tags and tag attributes like align will hide CSS styles, so don't use them!
- Place content between <div> and</div> containers
 - Suggested containers: surrounding container, header, content, footer
 - May also have column and/or row containers



Steps for a CSS based site

- Create an new external stylesheet and give it a name and file extension of css
 - Use the File=>New=>File menu option and choose Stylesheet
 - Drag the stylesheet filename from the Solution Explorer to the <head> area of your source code
 - This will automatically add the link> tag



Steps for a CSS based site

- 4. Add the **body** selector to the external CSS file
 - Place page default styles like font-family, font-size, color in this selector
 - Add other body styles to the selector as needed: margin, background-color, text-align, etc.



Steps for a CSS based site

- Plan and execute layout of <div> containers using inline or embedded CSS
- Move CSS to external stylesheet as IDs
 - Remember an ID has the name preceded by the # character
- Delete the inline or embedded CSS for the layout



Steps for a CSS based site

- 8. Style **HTML tags** in the source file with inline or embedded CSS
- Move CSS to external stylesheet as XHTML tag selectors
 - Make sure you really want every occurrence of that HTML tag to have this style
 - If not, use a **class** rather than a selector in the stylesheet for these styles



Steps for a CSS based site

- Delete the inline of embedded CSS used to style the HTML tags
- Apply CSS inline styles that may be applied more than once to a group of text or multiple XHTML objects
- 12. Move these inline styles to the external stylesheet as **classes**
 - Remember, a class style has a name with a . preceding it



Printing Friendly Version

- Problem: Sites that have a Print Version of the page usually created a separate file that is soon outdated
- By separating the page content (HTML tags) from the presentation (styles and layout)
 - The web page will print nicely because it is just HTML tags.
 - The page content will be the same for the printed page as it is for the page displayed with the presentation



Creating Semantically Correct HTML Markup

- Semantically correct markup uses HTML elements for their given purpose.
- Ensures HTML has appropriate meaning for a wide range of user agents
 - Screen readers
 - Printers
 - PDAs
 - Search Engines
 - etc.



Creating Semantically Correct Markup

- You should avoid styling HTML elements to look like other HTML elements.
 In simple terms, this means:
 - For headings, use heading elements starting with h1 – h6
 - For paragraphs of text, use a paragraph element
 - For lists, use a list elements



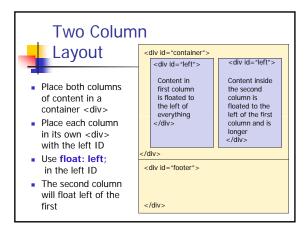
"Just Because You Can Doesn't Mean You Should"

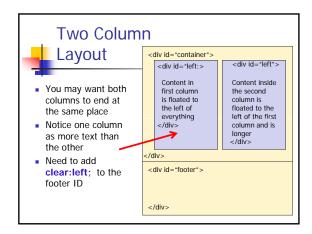
- CSS is very powerful in that you can style any HTML element to look exactly how you want
- There are some best practices that should be used when using CSS
- One place to look for "great" examples for artistically designed CSS is: http://www.csszengarden.com/

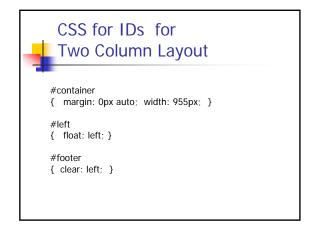


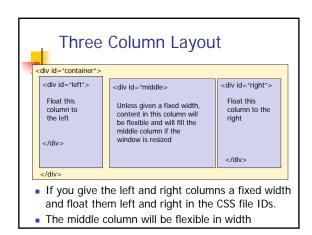
Layout Best Practices

- Choose absolute positioning only when you want page elements to always be in the same place
- Choose relative position for elements in when they will follow the regular flow of the page
- Try not to mix these two!!!









CSS IDs for Three Column Layout #container { margin: 0px auto; } #left { float: left; width: 150px; } #right { float: right; width: 150px; }

#middle { }

#footer { clear: both; }



Practice Makes Perfect

- Use CSS to separate page content from presentation
- Do not use CSS to give HTML tags an unfamiliar appearance
- The more you use CSS the better skilled you will become
- Examine CSS used by others to extend your knowledge, i.e.

http://www/csszengarden.com