

Today's Topics!

- More about Hyperlink tag
- ❖Introduction to Cascading Style Sheets (CSS)

Assignments

- Deadlines
 - ✓ Lab 2 Assignment: due was today at 6 pm
 - ✓ Lab 3 Challenge: due tomorrow at midnight.
 - ✓ Lab 3 Assignment: due Wednesday Feb. 20 at 6pm.
- Let me know by email (<u>vranjbar@bu.edu</u>) if you have any problem with BlackBoard homework submission.

More about Hyperlink tag

- 1. Opening a Link in a New Tab or Window
- 2. In-Page Links
- 3. Mailto Links

1. Opening a Link in a New Tab or Window

❖ Using a new attribute called "target" attribute in the <a> tag

Google

- What determines whether the link will open in a new tab vs. a new window?
 - ✓ It depends on the web browser
- What are advantages of opening a link in a new tab or window?
 - ✓ Your page stays open.
 - ✓ Some links are intended to be used as references.

2. In-Page Links

- A link can also send users to another part of the same page they are on.
- You can do it in two steps
 - ✓ Mark the place on the page that you want to jump to by adding an id attribute "#id" to the tag.
 - ✓ Add "#id" to the end of the href attribute of the link,

<h2 id="aboutme"> about me </h2>

.

 Go to about me

In-Page Links & Accessibility

- Many sites use in-page links to help screen reader users jump past the navigation menu to get to the main content.
- Usually the link text for such pages reads "Skip navigation" or "Skip to main content".
- Often these links are visible only to screen readers (or in the HTML code not in the browser).
 - ✓ hiding the content permanently with CSS
 - ✓ making the link the same color as the background
 - ✓ sizing the link to 0 pixels

3. Mailto Links

When you want to send an electronic mail, you can use a "mailto" link tag.

Email the C\$ 103 instructor

This only works if the user has a default email program, such as Apple Mail or Microsoft Outlook on the computer.

Time to experience!

Cascading Style Sheets http://www.csszengarden.com/

A Cascading Style Sheet is ... *a way to control the appearance of your web page *a text file with a filename that ends in .css *a file with a URL, just like an HTML web page *a file that can be viewed in a web browser

Style sheets allow ...

- separation of design(form) and content
- to style many pages with one file
- easier updating of a website's design
- designers and content providers to work separately
- to optimize styles for different devices (mobile, tablet)

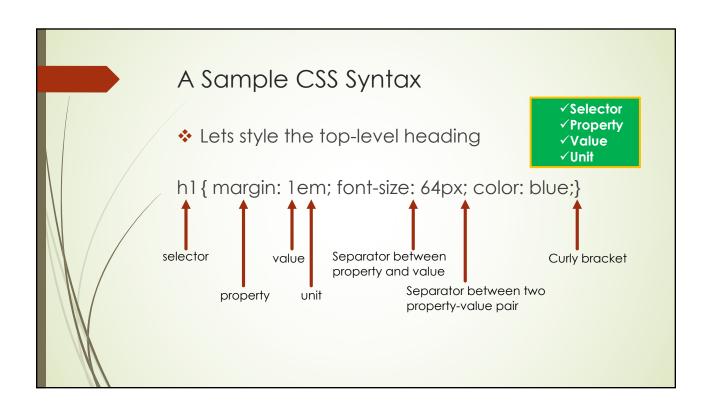
CSS Terminology

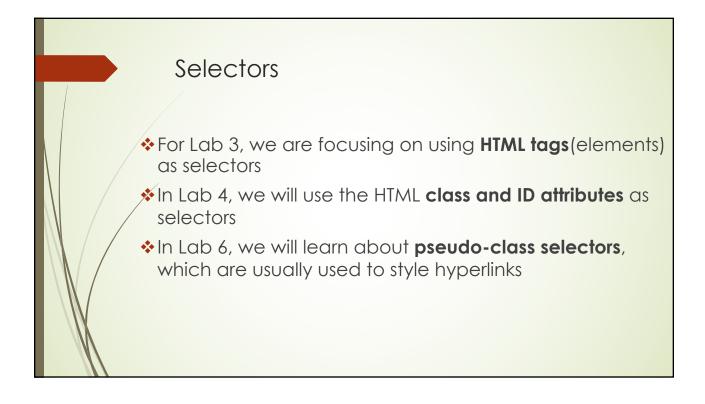
* HTML:

- √ Tags (elements) such as <a>, , <html>, ...
 - >Attribute such as href, src, height, alt, width, ...
- ✓ Content such as images and texts and videos, ...

CSS:

- ✓ Selector the object on the web page that you want to style
- ✓ Property the visual characteristic (color, size, font) that you are setting
- ✓ Value the specific value of that design characteristic
- ✓ Unit for numerical values, the unit of measurement





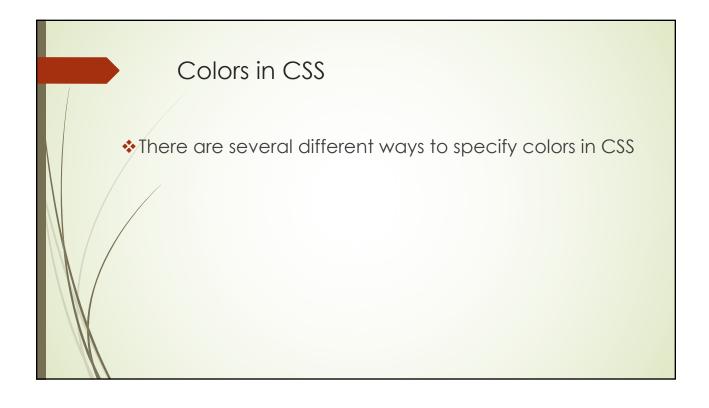
Connecting CSS and HTML

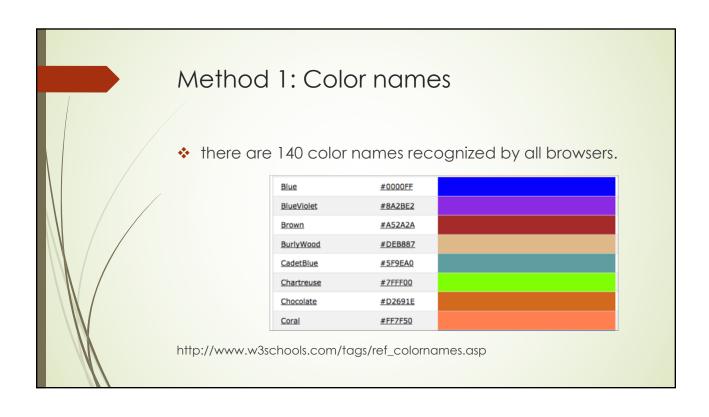
- There are 3 ways to style an HTML page:
 - 1. External style sheet (.css file)
 - 2. Internal styling
 - I. <style> tag in <head> of document
 - II. style attribute in individual HTML tags
- Method 1 is used in the vast majority of cases.
- ❖ In CS 103, we are going to use external style sheet

Method 1: External CSS

- This method allows you to apply the same styles to multiple web pages.
- ❖ Add a link tag to the <head> of the HTML file:
 - k rel="stylesheet" type="text/css" href="my-stylesheet.css">
- Change "my-stylesheet.css" to the name of your file.
- Everything else stays the same from document to document.
- rel="stylesheet" shows the relation between the linked file and the current file which is for styling the page.
- type="text/css" shows the format of the linked file which is a text or css file.







Method 2: Hex (Hexadecimal) Codes

- A hex code Consists of a pound sign plus 3 consecutive twodigit hexadecimal numbers #??????
 - ✓ The first number represents the amount of red light.
 - ✓ The second number represents the amount of green light
 - ✓ The third number represents the amount of blue light
 - ✓ The numbers range from 00 to FF Example:
 - The code for black (no light) is #000000
 - The code for white (maximum light) is #FFFFFF

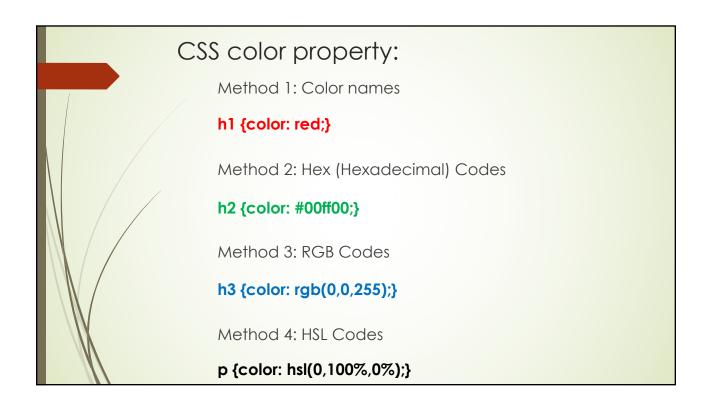
Method 3: RGB Codes

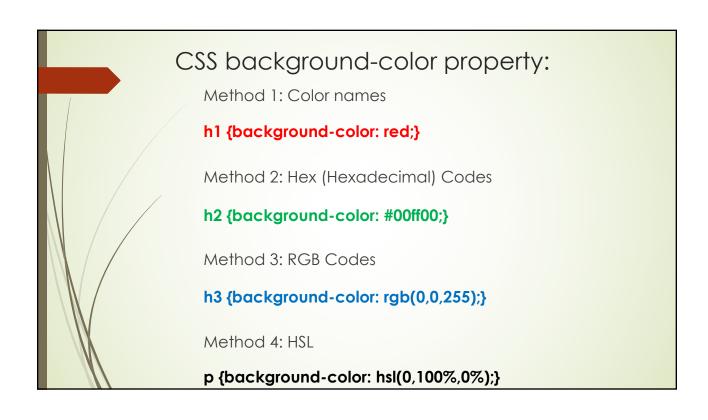
- Same idea as hex codes, but written rgb(n1,n2,n3)
 - ✓ n1 is a number between 0 and 255, representing the amount of red light
 - ✓ n2 is a number between 0 and 255, representing the amount of green light
 - ✓ n3 is a number between 0 and 255, representing the amount of **blue** light Example:
 - Value for black is rgb(0,0,0)
 - Value for white is rgb(255,255,255)

Method 4: HSL

- ❖ The newest way to specify color which is written hsl(n1,n2,n3)
 - √ n1 is the hue, representing the shade on the color wheel. A
 number between 0 and 360. 0 = red; 120 = green; 240 = blue
 - ✓ n2 is the **saturation**, a percent between 0 and 100%. 0 is no color; 100% is full color
 - ✓ n3 is the lightness, 0% being the darkest (black) and 100%
 being the lightest (white)

 HSL Color Wheel







In-class activity!

Go to the following url in codepen website:

https://codepen.io/azadeh83/pen/omPNdZ

h1{ margin: 1em; font-size: 64px; color: blue;}

