CSS Notes

CSS Basics

CSS – Cascading Style Sheets

- Keeps your document content and presentation style separate
- •Allows changes to the layout without changing the document

Where is the style sheet located?

1. External or linked style sheets are in a file

Ex. k rel="stylesheet" href="mycss.css" type="text/css" />

Linked style sheets can be linked to from multiple webpages. This provides for consistency of style across a website. It also provides a single location to update for changes in style.

Where is the style sheet located?

 Embedded or global style sheets are in the HTML document within the <style> element of the <head> element.

A global style sheet is used in a single webpage but refers to multiple elements within the webpage.

Example of using a global style

```
Example:
<head>
        <title>My title</title>
        <style>
                 p {
                          color: red;
                          font-family: verdana;
        </style>
</head>
```

In-line styles

Applied to a single element within the start tag of an element.

Example:

```
text for the paragraph here
```

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Style Precedence

The style closest to the element takes precedence

Inline → global (embedded) → linked (external)

Hierarchy of a style sheet

- Style Sheet
- Rule
- Selector
- Declaration
- Property
- Value

```
h1 { color: black;
font-size: 1.2em;
}
```

Comments in a CSS file

CSS properties are used to style the elements on the web page

- 1. Font properties font-family, font-size
- 2. Text properties spacing, alignment, blinking
- 3. Color & image properties
- Border properties color, margins, padding
- 5. Display properties- for structure, placement, block

CSS rules have two parts: selector and property declarations

The selector can contain

- A single element selector
- A class/id selector
- Or a list of selectors

Each property is separated by a semicolon

CSS selectors

Universal *

Elements by name element name (ex. p)

Class .

Id #

Descendant combinator space

Direct child >

First Child (pseudo-class) :first-child

CSS selectors

Sibling combinatory ~

Adjacent sibling +

Pseudo-elements::first-line,::first-letter,::before,::after

Pseudo-classes: first-child,: last-child,: link,: visited,: focus,

:hover, :active

Attribute element[attribute]

Attribute value equals element[attribute = "value"]

Attribute value contains element[attribute *= "value"]

Example

```
h1 {
        color: black;
        font-size: 12pt;
        font-family: arial
    }
```

The semicolon is not required on the last property or a single property (however, it is recommended).

Indicating color

```
color: blue;
color: #000FF;
color: #00F;
color: rgb(0,0,255);
color: rgba(0,0,255, .5);
color: hsl(240,100%,50%);
color: hsla(240,100%,50%, .5);
Hue (0-360 degrees) - Saturation - Lightness/Luminosity - Alpha channel (Opacity)
```

Indicating size

```
font-size: 12pt;font-size: 12px;font-size: .75em;font-size: 75%;
```

Backgrounds using CSS

- background-image: url(turtle.jpg);
- background-repeat: repeat-x;
- background-position: top right;
- Background-attachment scroll - Background image scrolls with the page.
 fixed - Background image does not scroll with the page.
- Background using shorthand: background: yellow url(turtlesmall.jpg) bottom left repeat-x;
- Background using a gradient background: linear-gradient(to top, rgba(255,0,0,0), rgba(255,0,0,1));

Precedence

How specific is the selector?

Is it !important?

Specificity

A B C D

- Universal selector 0000
- A 1 if selector is on the style attribute in html
- B 1 for each id selector
- C 1 for each attribute, pseudo-class, or class
- D 1 for each element name