

IT350 Web and Internet Programming

Fall 2005

SlideSet #5: CSS

(from Chapter 6 of the text)

Cascading Style Sheets (CSS) example

```
1 <?xml version = "1.0"?>
2 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
3   "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
4
5 <!-- Fig. 6.2: declared.html -->
6 <!-- Declaring a style sheet in the header section. -->
7
8 <html xmlns = "http://www.w3.org/1999/xhtml">
9   <head>
10    <title>Style Sheets</title>
11
12    <!-- this begins the style sheet section -->
13    <style type = "text/css">
14      /* Several rules are defined below */
15      em { background-color: #8000ff;
16          color: white }
17
18      h1 { font-family: arial, sans-serif }
19
20      p { font-size: 14pt }
21
22      .special { color: blue }
23
24    </style>
25  </head>
```

declared.html
(1 of 3)

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Key Questions

- I. Where can we specify style?
- II. How to “select” what parts of a page the style applies to?
- III. How can we specify specific style values?

I.

3 Locations for Style

1. Inline

```
<p style = "font-size: 20pt" > ... </p>
```

2. Embedded style sheet (in <head>)

```
<head> ... <style type="text/css" >  
  p { font-size: 20 pt}  
</style>
```

3. External style sheet

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

II.

CSS Selectors: automatically applied

```
<style type = "text/css">

    p          { font-size: 20pt}

    h1, h2    { font-size: 30pt}

    li em     { color: red;
                font-weight: bold }

    a:hover   { text-decoration: underline;
                color: red; }

</style>
```

II.

CSS Selectors: manually applied

```
<head> ...<style type = "text/css">
    a.nodect   { text-decoration: none }

    .crazy     { font-size: 40pt; color: red }

    #fineprint { font-size:8pt }
</style> </head>

<body> ...
    <a class="nodect" href="links.html"> ...

    <h1 class="crazy"> ...

    <div id="fineprint"> ...
```

III.

What styles can I apply?

- `font-family, font-size, font-style, font-weight`
- `text-decoration` (`line-through, overline, underline, none`)
- `list-style-type` (`disc, square, circle, url`)
- `color, background-color`
- `text-align` (`left, center, right, justify`)
- `float` (`left, right, none`)
- `border-style, border-width, margin, padding`
- `margin-left, margin-right, etc.`
- `background-image`

Many more...

III.

Examples of property values/units

Predefined – `xx-small, x-small, small, smaller, medium, large, x-large, xx-large`

`40%` (of current size or screen size)

`2em` (height of *M*)

`3ex` (height of *x*)

`10px`

`12pt = 1 pc`

`23in`

`17cm`

`92mm`

III.

Color

```
"color: yellow"  
black, white, red, blue, ...
```

```
"color: rgb(255, 255, 0)
```

```
"color: "FFFF00"
```

“Web-safe colors”?

Only use hex values:

Exercise #1: Write an embedded stylesheet that will...

1. Make every <h1> and <h2> section have 20pt size text
2. Put lines above links instead of under them
3. Define a rule “italic” that will italicize text

Exercise #2: Write an external stylesheet that will...

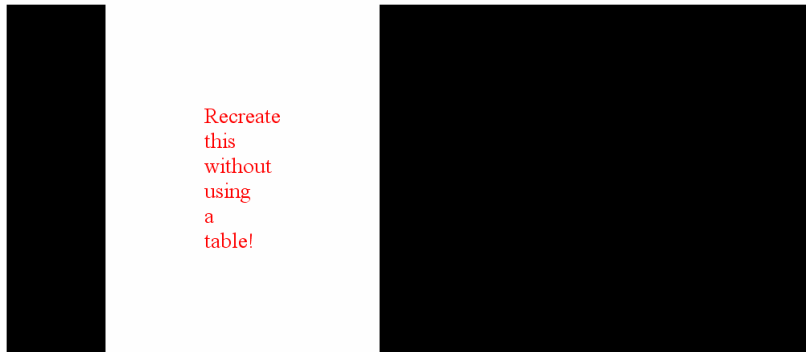
1. Using some relative size, make all <h3> text twice as large as <h4> text
2. Make normal paragraphs that are nested inside a table appear in bold.

Exercise #3: Where's the bug?

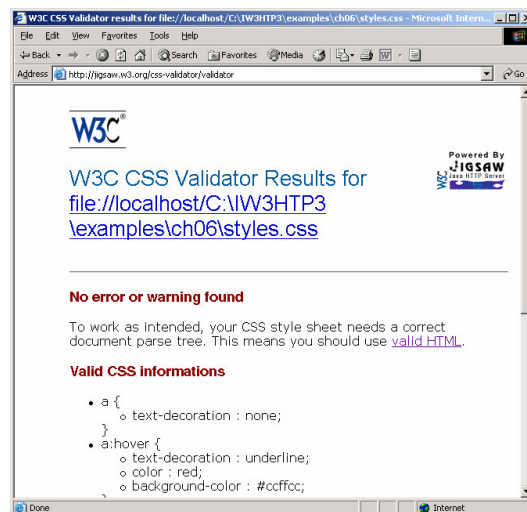
```
/* styles.css */  
  
td      {background-color: green; color: white}  
  
th      {background-color: green; color: red}  
  
a       {font-weight: bold; text-decoration: none}  
  
table   {margin-left: 5em, border-style: groove,  
        border-width: thick}  
  
div     {border-style: inset; border-width: thick}  
  
.crazy  {color: yellow; font-weight: 700}  
  
.mild   {color: gray; text-decoration: underline}
```

Exercise #4

- Write XHTML, with inline CSS, to re-create this:



W3C CSS Validation Service



<http://jigsaw.w3.org/css-validator>

div and span

```
<p> A very <span class="verybold">important  
  </span> announcement follows... </p>
```

```
<div class="links">  
  <p> ...  
  <p> ...  
  <p> ...  
</div>
```

Centering Secrets

- Stylesheet:

```
.tcenter {text-align: center}  
.dcenter {margin-left: auto;  
          margin-right: auto;  
          text-align: center}
```

- Usage:

```
<h1 class="tcenter">  
  
<div class="dcenter">  
  <table> ...</table>  
  <img> ... </img>  
</div>
```