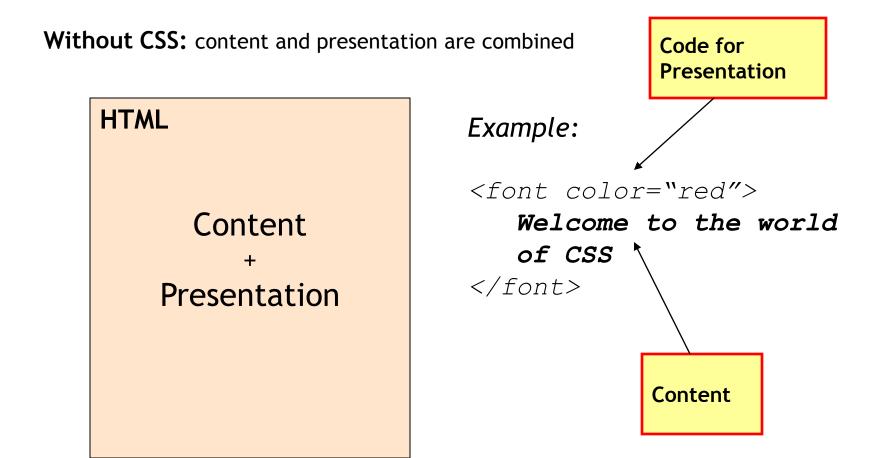


WEB PROGRAMMING SCV1223

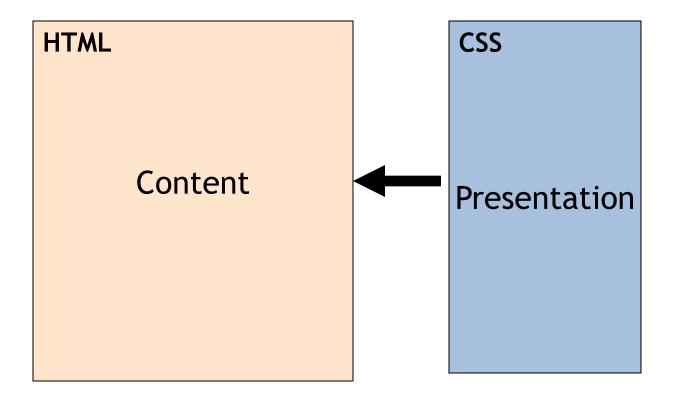
Cascading Style Sheets (CSS)

Dr. Md Sah bin Hj Salam En. Jumail bin Taliba

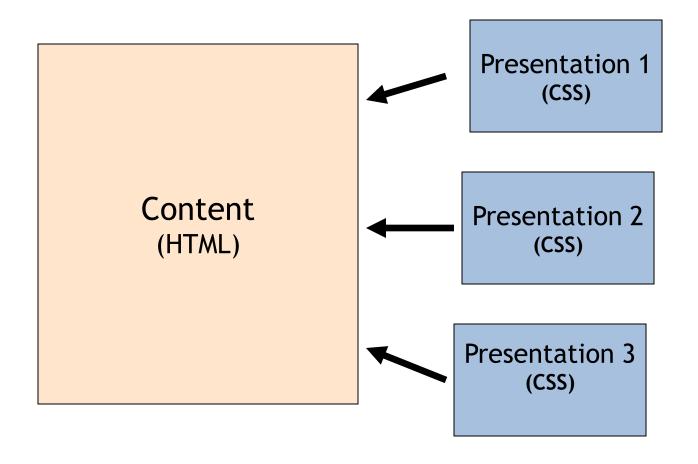




With CSS: content and presentation are separated



By using CSS, the same content can be presented in different appearances



css Zen Garden

Edit <u>V</u>iew

The Beauty of CSS Design

Favorites Tools

A demonstration of what can be accomplished visually through CSS-based design. Select any style sheet from the list to load it into this page.

Download the sample <u>html file</u> and <u>css file</u>

The Road to Enlightenment

Littering a dark and dreary road lay the past relics of browser-specific tags, incompatible DOMs, and broken CSS support.

Today, we must clear the mind of past practices. Web enlightenment has been achieved thanks to the tireless efforts of folk like the W3C, WaSP and the major browser creators.

∂G

The css Zen Garden invites you to relax and meditate on the important lessons of the masters. Begin to see with clarity. Learn to use the (yet to be) time-honor techniques in new and invigorating fashion. Become one with the web.

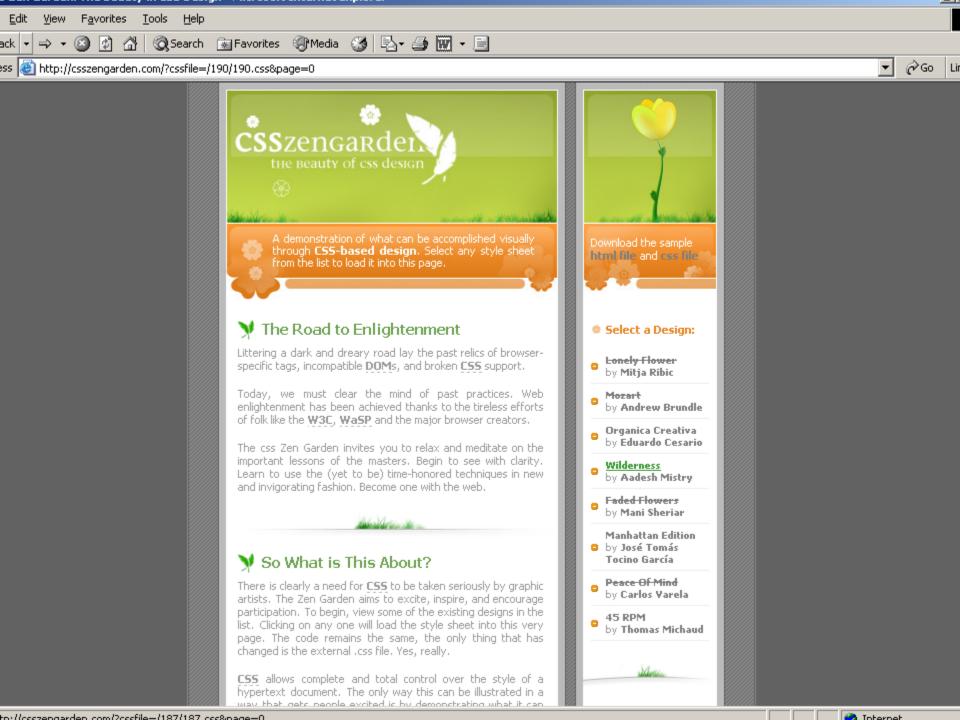
So What is This About?

There is clearly a need for CSS to be taken seriously by graphic artists. The Zen Garden aims to excite, inspire, and encourage participation. To begin, view so of the existing designs in the list. Clicking on any one will load the style sheet into this very page. The code remains the same, the only thing that has changed is external .css file. Yes, really.

CSS allows complete and total control over the style of a hypertext document. The only way this can be illustrated in a way that gets people excited is by demonstrating what it can truly be, once the reins are placed in the hands of those able to create beauty from structure. To date, most examples of neat tricks a hacks have been demonstrated by structurists and coders. Designers have yet to make their mark. This needs to change.

Participation

Granhic artists only place. Vou are modifising this nage so strong CSS skills are necessary but the example files are commented yyell enough that eyen CSS









DOWNLOAD THE SAMPLE HTML FILE AND CSS FILE



Littering a dark and dreary road lay the past relics of browserspecific tags, incompatible **DOM**s, and broken **CSS** support.

Today, we must clear the mind of past practices. Web enlightenment has been achieved thanks to the tireless efforts of folk like the **W3C**, **WaSP** and the major browser creators.

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Mornant Hits

Lonely Flower by Mitja Ribic

Mozart by Andrew Brundle

Organica Creativa by Eduardo Cesario

Wilderness by Aadesh Mistry

Faded Flowers by Mani Sherian

Manhattan Edition by José Tomás Tocino García

Peace Of Mind by Carlos Varela

45 RPM by Thomas Michaud



next designs »

View All Designs



€ Go



Why CSS?

To standardize the coding style

In HTML, different objects have different styles of coding or different property for the same presentation settings.

Example:

Setting the color of table borders and text are different



Why CSS?

To extend the attributes and features of HTML Tags

What HTML CAN do				What HTML CAN'T do	
				C-44:	on boudous in dividually
				- Setti l	ng borders individually
				_	
				_	



Why CSS?

To extend the attributes and features of HTML Tags

What HTML CAN do

What HTML CAN'T do

Help

Putting icon on a button



Setting colors, font, etc of form elements



<enter your name>





What are Cascading Style Sheets?

A set of formatting instructions

Most of the html elements have these attributes (specified for CSS):

- style
- □ id
- class

Using CSS involves two steps:

- Define styles
- Apply styles



Define Styles

Three ways to define styles:

- □ Inline
- Embedded
- Linked



Define Inline Styles CSS

Inline Styles

- □ Using the STYLE attribute
- Put directly into the start tags

```
Red Text
```



Define Embedded Styles CSS

Embedded Styles

 Style definitions are embedded in a document's head using the <STYLE> tag

```
<head>
<style type="text/css">
  p {color:red;}
  em {font-size: 16pt; color: green;}
</style>
</head>
<body>
  This is a red text 
</body>
```



Define Linked / External Styles CSS

Linked Styles

- □ Style definitions are put in an external file (normally we use file extension .css for this file)
- □ The external file is linked to the document using the <LINK> tag and put in head.

```
mystyle.css
p {color:re
em {font-size: 16pt; color: green;}

document.html
<head>
d;} <link rel="stylesheet" href="mystyle.css">
</head>
```



Define Styles: Precedence

Styles Precedence:

□ Inline styles have the highest precedence because they are the closest to the tag.

```
Example
<head>
<style type="text/css">
 p {color:red;}
</style>
</head>
<body>
 The blue color will take
 precedence
</body>
```



CSS Selector Format

Format of a CSS Style

CSS Selectors:

- Tag/Element
- Identifaction (id)
- Class
- Tag-spesific
- Grouping
- Contextual
- Pseudo-class



CSS Selector Types

CSS Selectors:

- □ Tag/Element
- Identifaction (id)
- Class
- Tag-spesific
- Grouping
- Contextual
- Pseudo-class



CSS Selectors: Tag / Element

Tag/Element Selector

- Using name of element/tag
- □ To redefine the default value of tags

```
Define
p {color:red;}
/*makes all p tags red*/
h1 {font-size: 20px;}
/*makes all text set by h1 tag to be 20 pixel in size*/

Apply
<h1>  This is a red text with 20 pixel in size</h1>
```



CSS Selectors : ID

Id Selector

- □ To define styles, the selector names use prefix # character
- □ To apply the styles, set the ID attribute with the name

```
Define
#red {color:red;}

Apply
<b id="red"> This is a red bold text </b>
```



CSS Selectors : class

Class Selector

- □ To define styles, the selector names use prefix . (dot) character
- □ To apply the styles, set the CLASS attribute with the name

```
Define
    .green {color:#00FF00; font-weight:bold;}

Apply
<font class="green"> I like green color</font>
```



CSS Selectors: Tag-Specific

Tag-Specific Selector

- □ Style can only be applied to elements which defined it.
- Selector name:

```
tag name.style name or tag name#style name
```

```
Define
font.redbold {color:red; font-weight:bold;}

Apply
<font class="redbold"> This is a red bold text</font>
<b class="redbold"> redbold style has no effect here</b>
```



CSS Selectors: Grouping

Grouping Selector

Define the same styles to a group of tags.

```
Define
```

```
h1,h2,h3 {background-color: orange;}
/*sets the background color of all h1,h2,and h3 elements to orange */
```



CSS Selectors : Contextual

Contextual Selector

Applies to descendent tags



CSS Selectors: Pseudo-class

Pseudo-class Selector

- **a:link** specifies the unvisited links
- **a:hover** specifies the link as mouse cursor is hovering on it
- □ a:active specifies the link as it is being clicked
- **a:visited** specifies the link after being clicked

```
Define
a:link {font-weight: bold;}

/* makes unvisited links bold */
a:hover {text-transform: uppercase;}

/* makes links uppercase as mouse cursor is hovering on*/
a:active {color: red;}

/* makes links red as they are clicked */
a:visited {text-decoration: underline;}

/* makes visited links underlined*/
```



CSS Measurements



Unit	Description	Example
%	Defines a measurement as a percentage relative to another value, typically an enclosing element.	<pre>p {font-size: 14pt; line- height: 150%;}</pre>
cm	Defines a measurement in centimeters.	<pre>div {margin- bottom: 1cm;}</pre>
em	A relative measurement for the height of a font in em spaces. Because an em unit is equivalent to the size of a given font, if you assign a font to 12pt, each "em" unit would be 12pt; thus, 2em would be 24pt.	<pre>p {letter- spacing: 5em;}</pre>
ex	This value defines a measurement relative to a font's x-height. The x-height is determined by the height of the font's lowercase letter x.	<pre>p {font-size: 14pt; line- height: 2ex;}</pre>



ocw.utm.my CSS Measurements

Unit	Description	Example
in	Defines a measurement in inches.	<pre>p {word- spacing: .25in;}</pre>
mm	Defines a measurement in millimeters.	<pre>p {word- spacing: 12mm;}</pre>
рс	Defines a measurement in picas. A pica is equivalent to 12 points; thus, there are 6 picas per inch.	<pre>p {font-size: 10pc;}</pre>
pt	Defines a measurement in points. A point is defined as 1/72nd of an inch.	<pre>body {font- size: 14pt;}</pre>
рх	Defines a measurement in screen pixels.	<pre>p {padding: 15px;}</pre>



CSS Properties

Categories

- □ Font and Type Settings
- Background
- Block
- Box
- Border
- List
- Positioning



Font and Type Properties

```
font-family
font-size
font-size-adjust
font-size-stretch
font-style
font-variant
font-weight
```

text-align
text-decoration
text-indent
text-shadow
text-transform



Background Properties

background-attachment
background-color
background-image
background-position
background-repeat



Border Properties

border-bottom border-bottom-color border-bottom-style border-bottom-width border-collapse border-color border-left. border-left-color border-left-style border-left-width border-right border-right-color

border-right-style
border-right-width
border-spacing
border-style
border-top
border-top-color
border-top-style
border-top-width
border-width