Cascading Style Sheets (Part 3):

Images and Text
We also have with us...

- Jose Sermeno
  - MadCap Product Evangelist

- He will answer questions during the webinar

- Type questions in the Question and Answer area of the GoToWebinar interface
• Mike Hamilton
  – MadCap V.P. of Product Evangelism

Mike Hamilton is the Vice President of Product Evangelism at MadCap Software where he is working on the next generation authoring tool, Flare. Before joining MadCap Software, he was the Product Manager for the RoboHelp product line since the days of Blue Sky Software, eHelp, and Macromedia.

Mike has over 20 years of experience in training, technical communication, multimedia development, and software development.
• Short CSS review
• Images as background properties
• Images as elements
• Controlling text flow around images
Short CSS Review
What Are Cascading Style Sheets?

• A Cascading style sheet (CSS) document is a simple text file.

• A CSS file contains a collection of style rules used to control the look and feel of documents.

• A CSS style rule has two parts, a Selector and a Declaration
Cascading Style Sheets (CSS)

- **Style Rules**

  H1 {\textbf{font-weight: bold} \textbf{color: black}; }
• Class Syntax:

  – In a style sheet:

    \[
P.myclass \{ \text{color:blue;} \text{ margin-left:3px;} \}\]

  – In a page:

    \[
    <P \text{CLASS="myclass"}>Text</P>
    \]
Images Overview
• Unlike word processors or desktop publishing applications, in an XML or XHTML world images can NOT be embedded in documents

• Images are always external to the documents and are included by reference

<img src="graphics/Image.jpg" />
<html>
  <head>
    <link href="test.css" rel="stylesheet" />
  </head>
  <body>
    <h1>heading 1 Text</h1>
    <p>"It is a far, far better thing that I do, than I have ever done; it is a far, far better rest that I go to than I have ever known."</p>
    <p>Closing paragraph</p>
  </body>
</html>
<html>
<head>
    <link href="test.css" rel="stylesheet" />
</head>
<body>
    <h1>heading 1 Text</h1>
    <img src="Image.jpg" />
    <p>"It is a far, far better thing that I do, than I have ever done; it is a far, far better rest that I go to than I have ever known."</p>
    <p>Closing paragraph</p>
</body>
</html>
Images as Background Properties
• Any element can use an image as a background

• For small elements this can focus attention

• For large elements (such as Body) this can act as a watermark
<html>
<head>
    <link href="test.css" rel="stylesheet" />
</head>
<body>
    <h1>heading 1 Text</h1>
    <p>
        "It is a far, far better thing that I do, than I have ever done; it is a far, far better rest that I go to than I have ever known."
    </p>
    <p>Closing paragraph</p>
</body>
</html>
body {color: #000000;
    background: #F1F2EC;
    font-size: 8pt;
    font-family: Verdana, Arial, Helvetica, Sans Serif;}

h1 {color: #0D10E5;
    font-size: 12pt;
    background-image: url(image2.jpg);
}

h2 {color: #040677;
    font-size: 10pt;}
p {margin-bottom: 16px;}

<html >
  <head>
    <link href="test.css" rel="stylesheet" />
  </head>
  <body>
    <h1>heading 1 Text</h1>
    <p>"It is a far, far better thing that I do, than I have ever done; it is a far, far better rest that I go to than I have ever known."</p>
    <p>Closing paragraph</p>
  </body>
</html>
<html>
<head>
    <link href="test.css" rel="stylesheet" />
</head>
<body>
    <h1>heading 1 Text</h1>
    <p>"It is a far, far better thing that I do, than I have ever done; it is a far, far better rest that I go to than I have ever known."</p>
    <p>Closing paragraph</p>
</body>
</html>
• The **Background-Image**: attribute allows you to choose the image

• Additional control is available using
  – Background-repeat
  – Background-attachment
  – Background-position
• The Background-repeat: attribute controls how the image is applied

• Options:
  o Repeat  “Tiles” the image to cover the entire page
  o No-repeat  Shows the image once
  o Repeat-x  “Tiles” the image horizontally
  o Repeat-y  “Tiles” the image vertically
"It is a far, far better thing that I do, than I have ever done; it is a far, far better rest that I go to than I have ever known."

Closing paragraph
<html>
<head>
  <link href="test.css" rel="stylesheet" />
</head>
<body>
  <h1>heading 1 Text</h1>
  <p>"It is a far, far better thing that I do, than I have ever done; it is a far, far better rest that I go to than I have ever known."</p>
  <p>Closing paragraph</p>
</body>
</html>
<html>
<head>
<link href="test.css" rel="stylesheet" />
</head>
<body>
<h1>heading 1 Text</h1>
<p>"It is a far, far better thing that I do, than I have ever done; it is a far, far better rest that I go to than I have ever known."</p>
<p>Closing paragraph</p>
</body>
</html>
It is a far, far better thing that I do, than I have ever done; it is a far, far better rest that I go to than I have ever known.

Closing paragraph
• The Background-attachment: attribute determines how the image reacts to the browser scroll bar

• Options:
  o Scroll    The background image scrolls with the page content
  o Fixed     The background image is fixed and the page content scrolls over it
• The Background-position: attribute determines where the background image is located on the page

• The format is:

  background-position: x y;

• Where
  o X is the distance from the left side of the page to the image anchor
  o Y is the distance from the top of the page to the image anchor
Background - Position

• X and Y values can be percentages, fixed values (inch, cm, etc), or named values (top, center, etc.)

• For this example we will use background-position: 75% 75%;
<html>
<head>
  <link href="test.css" rel="stylesheet" />
</head>
<body>
  <h1>heading 1 Text</h1>
  <p>"It is a far, far better thing that I do, than I have ever done; it is a far, far better rest that I go to than I have ever known."</p>
  <p>Closing paragraph</p>
</body>
</html>
• If I have the text

    CAUTION!: Don’t do something.

    background-image: /caution.png;
    background-position: 0% 50%;
    background-repeat: no-repeat;
    line-height: 40px;
    padding-left: 60px

    CAUTION!: Don’t do something.
• **Background-image:** attribute allows you to choose the image

• **Background-repeat:** attribute controls how the image tiles

• **Background-attachment:** controls the scroll behavior of the image

• **Background-position:** controls where the image is located
Images as Elements
<html>
<head>
  <link href="test.css" rel="stylesheet" />
</head>
<body>
  <h1>heading 1 Text</h1>
  <img src="Image.jpg" />
  <p>"It is a far, far better thing that I do, than I have ever done; it is a far, far better rest that I go to than I have ever known."</p>
  <h2>heading 2 Text</h2>
  <p>Closing paragraph</p>
</body>
</html>
Controlling Text Flow
Around Images
Images are block level elements and flow in a document just like paragraphs.

Often this is not the behavior that you want. To allow text or other content to flow around images the Float property is used.
The Float attribute has three possible values:

- **None** – Content will be above or below the image
- **Right** – The image moves to the right and the content flows around it
- **Left** – The image moves to the left and content flows around it
"It is a far, far better thing that I do, than I have ever done; it is a far, far better rest that I go to than I have ever known."

Closing paragraph
<html>
  <head>
    <link href="test.css" rel="stylesheet" />
  </head>
  <body>
    <h1>heading 1 Text</h1>
    <img class="right" src="Image.jpg" />
    <p>"It is a far, far better thing that I do, than I have ever done; it is a far, far better rest that I go to than I have ever known."</p>
    <h2>heading 2 Text</h2>
    <p>Closing paragraph</p>
  </body>
</html>
<html>
<head>
  <link href="test.css" rel="stylesheet" />
</head>
<body>

<h1>heading 1 Text</h1>
<img class="right" src="Image.jpg" />
<p>"It is a far, far better thing that I do, than I have ever done; it is a far, far better rest that I go to than I have ever known."</p>
<h2>heading 2 Text</h2>
<p>Closing paragraph</p>

</body>
</html>
The **Clear** property can be used to override an element with a **Float** applied (like the H2 in our previous example)

Clear values determine the sides on which floated elements are prohibited:

- Left
- Right
- Both
- None
Using Clear

body {color: #000000; background: #F1F2EC; font-size: 8pt; font-family: Verdana, Arial, Helvetica, Sans Serif;}

h1 {color: #0D10E5; font-size: 12pt;}

h2 {color: #040677; font-size: 10pt;}

p {margin-bottom: 16px;}

img.right {float: left;}

<html>
<head>
<link href="test.css" rel="stylesheet" />
</head>
<body>
<h1>heading 1 Text</h1>
<img class="right" src="Image.jpg" />
<p>"It is a far, far better thing that I do, than I have ever done; it is a far, far better rest that I go to than I have ever known."</p>
<h2>heading 2 Text</h2>
<p>Closing paragraph</p>
</body>
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<html>
  <head>
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  <body>
    <h1>heading 1 Text</h1>
    <img class="right" src="Image.jpg" />
    <p>"It is a far, far better thing that I do, than I have ever done; it is a far, far better rest that I go to than I have ever known."</p>
    <h2>heading 2 Text</h2>
    <p>Closing paragraph</p>
  </body>
</html>
• Images added by reference

• The Float property allows content to flow around an image
  – Float: right – image goes right and content flows around its left side
  – Float: left – image goes left and content flows around its right side

• The Clear property is used to override the Float when necessary
Summary

• Images as background properties
  – Special effects
  – Watermarks
  – Positioning and attributes

• Images as content elements
  – Controlling text flow using Float
  – Overriding Float using Clear
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Suggested Reading List

**HTML, XHTML, and CSS, Sixth Edition (Visual Quickstart Guide)**
by Elizabeth Castro  

**CSS To The Point**
by Scott DeLoach  

**Cascading Style Sheets: Designing for the Web (3rd Edition) (Paperback)**
by Hakon Wium Lie and Bert Bos  

by Eric Meyer  
Questions?

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Thank You!

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