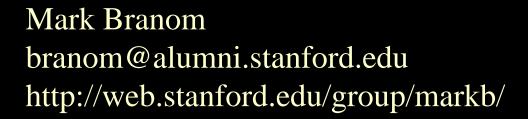
Web Site Design

Stanford University Continuing Studies CS 21



Course Web Site: http://web.stanford.edu/group/csp/cs21/

Week 5 Slide 1 of 20

Week 5 Agenda

- Images review
- Using Dreamweaver
- Imagemaps
- HTML5 & Embedding Sound & Video

Using Graphics on Web Pages (Review)

Graphics on web pages are separate files. Unlike a
Word document, where the graphics actually "live"
within the document, to get a graphic on a web
page, designers point to the graphic file in the HTML
source code like this:

```
<img src="URL-of-graphic" alt="description of graphic" />
```

 Graphics are copyrighted material and should only be used with permission.

Graphics can be described as either relative or fully qualified URLs (Review)

http://web.stanford.edu/group/csp/cs21/demos/bunny.html

Relative reference (relative to the location of the HTML document)

Graphics (Review)


```
SRC="URL" (required): URL is the location of the image file
ALT="text": Alternative text which is displayed if the browser cannot process the image. The text will display as a tooltip in Windows Internet Explorer.
TITLE="text": Title of an image -- this will be displayed as a tooltip in most browsers
HEIGHT="XX": Height in pixels of the image file
WIDTH="YY": Width in pixels of the image file
BORDER="ZZ": Size of the border, in pixels (select 0 if you don't want a border)
ALIGN="LEFT/RIGHT/TOP/MIDDLE/BOTTOM": Alignment of the image in relationship to the surrounding text
```

To find the width & height of an image (Internet Explorer): (Review)

- 1. Launch *Internet Explorer* and locate the website that has the image.
- 2. Place the mouse over the image.
- 3. On a Windows-based PC, press the right-click button. On a Macintosh, control-click the mouse button.
- 4. A dialog box will appear. Select "Properties".
- 5. Look at Dimensions: Your image will be listed in pixels (Width x Height)

To find the width & height of an image (Firefox): (Review)

- 1. Launch Firefox and locate the website that has the image.
- 2. Place the mouse over the image.
- 3. On a Windows-based PC, press the right-click button. On a Macintosh, control-click the mouse button.
- 4. A dialog box will appear. Select "Open this Image" (Macintosh) or "View Image" (PC).
- 5. Look in the title bar.
 The image size should be displayed in pixels: Width x Height

What is an image map?

- Image maps allow a webmaster to take an image and define more than one hyperlink for the image. Each hyperlinked section is called a "hotspot".
- To define a hotspot, webmasters open the image in a graphics program and record the coordinates of the points corresponding to the hotspot boundaries.

Map tags

rect

```
<area shape="rect" coords="x,y,a,b"
href="link1.html" />
```

 Coordinates refer to the x/y coordinates for the upper left and the lower right coordinates for the rectangle.

circle

```
<area shape="circle" coords="x,y,r"
href="link2.html" />
```

 The x/y coordinates refer to the center of the circle. The r refers to the size of the radius (in pixels).

polygon

```
<area shape="polygon"
coords="x1,y1,a1,b1,x2,y2,a2,b2,..."
href="link3.html" />
```

 Coordinates refer to the x/y coordinates for as many are needed to define the polygon.

Imagemap software

- Macintosh
 - <u>Dreamweaver</u>
 - http://www.adobe.com/software/dreamweaver
- Windows-based PCs
 - Dreamweaver
 - http://www.adobe.com/software/dreamweaver
 - MapEdit
 - http://www.boutell.com/mapedit/

Enhancing with sound/video

- Adding sound and/or video to your website can make viewing your site an exciting and vibrant experience.
- However, depending on how you utilize this technology, it can also bog down the servers, and make visitor experience of your website a real drag.

Sound and Video Archives

- http://commons.wikimedia.org/wiki/Category:Sound
- http://commons.wikimedia.org/wiki/Category:Video
- http://www.mp3.com/
- http://archive.org/
- http://www.ourmedia.org/
- http://www.youtube.com/

Using the Anchor Tag

- Click here to listen
- Click here to view
- Click here to view
- Click here to listen/view

Advantages:

- Page loads instantly. No waiting for large files to download in the background.
- Works with all browsers, even version 1.1N

Disadvantages:

- Requires plug-ins or players
- Can't adjust the height/width or location of the video/sound.

<embed> tag

- SRC="URL"
- AUTOSTART="TRUE|FALSE"
- ALIGN="BOTTOM|TOP|LEFT|RIGHT"
- ALT="ALTERNATIVE TEXT"
- BORDER="XX" -- in pixels
- LOOP="TRUE|FALSE"
- HEIGHT="XX" -- in pixels
- WIDTH="XX" -- in pixels
- HIDDEN="TRUE|FALSE"
- VSPACE="XX" -- space above/below embedded object (in pixels)

<embed> examples

```
<embed src="bach.mp3" hidden="true"
height="0" width="0" border="0"
alt="Bach's Fugue in D
Major"></embed>
```

```
<embed src="movie.mov"
autostart="true" loop="false"
height="640" width="480">
</embed>
```

HTML5 Video

See Dive into HTML5: Video on the Web

http://diveintohtml5.info/video.html

Next week...

Lists

Tables