Chapter 4
Basic Web Page Construction

TOPICS: Images and placing pages on the server

Review

- Let's finish working on the list of bookmarks

- Create a page that contains a list of your favourite websites (your bookmarks)

- You should include

  - A heading (My Bookmarks)

  - A smaller heading (Your name) on a separate line

  - A list of your bookmarks. These should be links to the websites, and should be divided up into categories using nested lists

Web Page Images

- A picture is worth a thousand words!

- Most web browsers can display online images

- Browsers support the following image formats

  - o X Bitmap (XBM)

  - o GIF: Graphics Interchange Format

  - o JPEG: Joint Photographic Expert Group

  - o PNG: Portable Network Graphic

A Note on Copyright

- If the image does not belong to you, you have no right to post it on the web

- Free clipart libraries are an exception

Adding Images to Web Pages

- Images are not directly added to web pages

- Instead, the image files are placed onto the web server, and links to the images are placed in the web page

Image Tag

- To link to an image from a web page, you need

  - HTML tag <img>

  - The attribute src=*image_file*

    - Where image_file is the URL of the image

- Example:

  - <img src="pacific.gif">

- The <img> tag has no ending or closing tag!

Attributes of <img> Tag

- height & width

  o Used to specify the height and the width of the image in pixels

- alt

  o The alternate text displayed when the user has images turned off

Getting Images off the Web

- Click on image, hold mouse button down

- Choose "save image as" from menu

- Choose the location you want to save the image (desktop or server)

Exercise

- Let's try adding images to a page

- Download image to local disk
  - http://zeus.cs.pacificu.edu/shereen/pacific.jpg

- Create an web page and add a link to the image
  - Try adding the image in the middle of text
  - Change the size of the image

Aligning Images

- Adding the image as we did in the previous example treats the image as an individual character

- Does not look good!

- Better to align the image with the text

  - o Image on the left, text on the right

  - o Image on the right, text on the left

Align Attribute

- This attribute will align the image to the right or right

- Example:
  - o <img src="pacific.gif" align=left>

- Try using this attribute on the web page you created

- What difference does it make?

Location of Images

- So far, all the images that we have linked to have been in the same directory (folder) as the webpage

- It is usually a better idea to place all images in a separate directory

- In the previous example, if the image was placed in a directory (images) the html would be

  o <img src="images/pacific.jpeg">

Placing Web Pages on Euler

- All the pages we have created up to now have been placed on the local machine (desktop)

- These are not considered online as they are not accessible to other people on the Internet

- We will be placing web pages online by placing them in the sites folder in our directories on Euler

Placing Web Pages on Euler

- So we don't mix different web pages up, it is a good idea to create folders for the different exercises or assignments

- Example:

  o Create a directory called "week4" in your sites folder on Euler

  o Place your web page in that folder

  o Create an images folder in the "week4" folder

  o Place all your images into that folder

Viewing Your Web Pages

- You can view the pages on Euler by opening a browser and typing in the following URL
  - http://euler.math.pacificu.edu/~username/filename

  - Where username is your username
    - i.e. mine would be khoj0332

  - The filename is the name of the webpage you created.
    - This should have the extension .html

Problem

- Let's design a new page for the natural science division

- This page must

  o Display the Pacific University Logo

  o Use a colored background

  o Contain a heading "Natural Science Division

  o Use a list format linking to: Biology, Chemistry, Computer Science, Exercise Science, Environmental Studies, Mathematics, Physics

Creating More Than One Page

- So far, we have created only one page for each problem or exercise

- We have only linked to web sites

- How would we create web pages that link to each other?

Problem

- Create a page with at least two riddles on it (questions only)

- Create another page with a list of answers

- Link the two pages together:

  - On the first page, add a link to the answers

  - On the second page, add a link back to the first page