

UNIVERSITY OF NEVADA LAS VEGAS
Department Of Computer Science
IS-101

(Mr. Harden's Sections)

ASSIGNMENT #5

PURPOSE & OBJECTIVES:

The purpose of this assignment is to become familiar with Microsoft's **Photo Editor** software, and some of its features including:

- Scanning photos;
- Altering photos;
- Saving photos as .gif and .jpeg (or .jpg) images;
- Including scanned .gif and .jpg images in a Web page;
- Adjusting an Web page image to produce a thumbnail;
- Using the "Alt" attribute with the IMG tag.

SPECIFICATIONS & INSTRUCTIONS:

PLEASE NOTE:

- To receive full credit, all specifications must be met and fulfill the assignment as an individual effort;
- The assignment must be done with **Notepad**, and no other text editor, word processor or HTML code generator products (not Wordpad, nor Word, nor Word Perfect, nor Front Page, nor Home Page, etc.);
- The following instructions are written for Microsoft's **Notepad**;
- Read the **NOTES** at the bottom of the assignment before continuing;
- Learning how to do this assignment:
 - The following descriptions are the specifications for the assignment;
 - *They are not a tutorial on how to do the assignment;*
 - Discussion and demonstration on how to do the assignment will be given in class on the demonstration day for this assignment (please attend class that day for the demonstration);

Using **HP PrecisionScan Pro** or **Photo Editor** (or equivalent), and a scanner, create and demonstrate the following:

(Note: If the following instructions do not work with **Photo Editor**, use **HP PrecisionScan Pro**)

1. Scan one portrait of yourself and/or your family into a PC.
Save the portrait as both a .gif and a .jpg image.
Remember, that .gif images support 256 colors, while .jpg images support almost 17,000,000 colors.

Scanning Instructions:

(Assumes using the HP-6200 scanner and the HP PrecisionScan Pro software in Labs):

1. Launch HP PrecisionScan Pro ;
2. Set Scanning resolution to 75 or 100 DPI (Dots Per Inch) by clicking *Tools-Resolution* in the menu bar.
PLEASE NOTE: if the scanning resolution is higher than 100 DPI, it will create a very large image file, and will result in the browser displaying a very large image on the screen.
3. Place photo in scanner;
4. Press green scan button on scanner, or click scanner button on tool bar;
5. After scanned image appears in screen, use mouse to point, click and drag frame borders to size of photo;
6. Click "Output Type" on tool bar;
 - For GIF image:
 - Select "grayscale" for black & white or "256 Color" for color;
 - Click "Scan-Save As" on the menu bar (or the Save Icon in the tool bar);
 - Select "GIF" format;

- Give the file a name (such as "mypic") and save;
The scanner will re-scan the image and save it as a "GIF".
- For JPG image:
 - Select "True Color";
 - Click "Scan-Save As" on the menu bar (or the Save Icon in the tool bar);
 - Select "JPG" format;
 - Give the file a name (such as "mypic") and save;
The scanner re-will scan the image and save it as a "JPG".

2. Write a Web page like the one in the sample that shows the following images center aligned:

- i. Your .gif image;
- ii. Your .jpg image;
- iii. A thumbnail of one of the images in which the width of the thumbnail is 100 pixels, and the height is what ever number of pixels maintains the proper aspect ratio of the orginal image. For example:
 - Suppose your photo is 400 pixels high by 300 pixels wide. The aspect ratio is $400/300$ or 1.33 .
 - Since the Thumbnail is to be 100 pixels wide, the height will be $1.33 \times 100 = 133$ pixels high.
 - Thus the Thumbnail, in this example, is 133 pixels high by 100 pixels wide.
- iv. Use the "Alt" attribute with the IMG tags as shown in the sample HTML code.
(What does the "Alt" attribute do? It means "alternate text". Whatever text is supplied as the value to the "Alt" attribute will be displayed where the image will appear until the image is loaded and appears on the page.);
- v. Place a hyperlink (use the anchor tag) at the bottom of your page that will link back to your Home Page named "index.html" (which is a copy of assignment #4 renamed as "index.html". See next instructions).

3. Make Assignment #4 into your Home Page as follows:

- i. Make a copy of assignment #4 and name it "index.html";
(NOTE: Do not rename your Assignment #4. Keep your original Assignment #4 with its original file name. Make a copy of Assignment #4 and name the copy "index.html". This procedure is a preparation for the next assignment).
- ii. Add hypertext "Link To My Photo Album" with a hyperlink (use the anchor tag) to the filename of your assignment #5 HTML file (example: Instructor's assignment #5 HTML filename is "assn5.html");
- iii. Test the link and verify it works.

This procedure is preparing you to post your pages to the World Wide Web in the next assignment.

ASSIGNMENT SUBMISSION:

Submit the following printouts for this assignment stapled together in the following order:

1. The browser printout of this Web page.
 - Have the HTML code print your name on the page;
 - This page is going to be posted to the World Wide Web.
Thus, for privacy, hand write your ID#, Section#, and Assignment# beneath your name.
 - Hand write your Last Name and Section# in the upper right corner for the grader.
2. The HTML source code of this assignment printed from **Notepad**.
3. The browser printout of your new Home Page named "index.html" with the added hyperlink to the page for this assignment.

NOTES:

1. All specifications must be met for full credit.
2. Scan one photo only. Make a ".gif" image of the photo, and a ".jpg" (or ".jpeg") image of the photo.
3. KEEP THE IMAGES CLEAN. No images in poor taste are accepted.
4. Printouts may be from a black-and-white printer. Printouts do not have to be in color.

5. Background colors and images may not show on your browser printout(s). Most browsers have been set to not print backgrounds so that the printer's ink cartridge or toner cartridge will not be quickly depleted of ink.
6. When deciding on a filename:
 - o Avoid using special characters in the filename such as # (pound sign) and spaces;
 - o Use only one period (".") in the filename, and use it separate the filename's first name from it's extension name;
 - o Keep the name simple, such as "assn4.html".

Although **Windows** does not care if you follow these guidelines when naming a file, the Web Server used in a future assignment to post your Web site to the World Wide Web will care, and your Web site might not function correctly unless you follow these guidelines.

7. Never, Never click *File-Save* or *File-Save As...* from the browser's menu bar. IT WILL DESTROY YOUR HTML SOURCE CODE IN NOTEPAD!!!

[Click Here To See Sample Web Page For This Assignment](#)

(Click browser's "Back" button from sample Web page to return to this page)

[Click Here To See The HTML Source Code That Produced The Sample Web Page](#)

[Click Here To Return To Class Page](#)