

CE206 – HCI & Visualization

Spring 2019

LAB 1 – Manipulating images for the Web

All files for this lab are to be downloaded from Moodle:

<https://moodle.essex.ac.uk/course/view.php?id=3649>

Step 1: Find a suitable image to manipulate

- Use Google to find an image and save the file into your \images subdirectory.

Step 2: Editing your images

For the purposes of this lab we will use Paint, which should already be installed on your computer.

1. Open your image in Paint.
2. To crop your image, click on the **Select** button, and choose **Rectangular selection**.
3. Now draw a rectangular box inside your image and click the **Crop** button (to the right of the **Select** button).
4. To resize your image, click the **Resize** button (to the right of the **Select** button)
5. Change the numeric value of the horizontal size of the image. The vertical size will change automatically if you have “Maintain aspect ratio” selected. Resize your image to 800 pixels wide.
NB: if you increase the size of the image the quality will decrease.
6. Now save your new image by selecting **Save as...** from the file menu. Make the appropriate choice of .jpg or .gif

Use the .jpg format for complex multicolour images such as photos. Use the .gif format for simple images such as logos (see below for examples).



Save this type of image as a .jpg



Save this type of image as a .gif

Note: It is recommended, if you frequently do image manipulation, that you consider using a more advanced tool such as Adobe Fireworks, Adobe Photoshop, GIMP or even Google's Picasa.

Step 3: Adding your image to your website

If you want to see the image within a web site, add the following code into your HTML file:

```

```

Make sure you add helpful **alt text** (this gets displayed when the image does not load and is required for site accessibility). Adding the image width and height is not essential but it will ensure your layout doesn't jump whilst the page loads. Do not try to change the image size using these attributes as the image will pixelate and look horrible!