Assignment #1 Notes

Getting Started in Class

(1) Use `Cyberduck` or `Fetch` to download the following three subdirectories (subfolders) from the course directory on the CS file server to your Desktop (or `cs332` folder on your Desktop):

```
/home/cs332/download/edges
/home/cs332/download/assign1
/home/cs332/download/assign1images
```

(2) In MATLAB, set the Current Folder to the `assign1` folder

(3) In MATLAB, add the `edges` and `assign1images` folders to the MATLAB *search path:*

(a) in the menu section along the top of the MATLAB desktop, click on **Set Path**
(b) in the dialog box that appears, click on the **Add Folder…** button
(c) in the browser window that appears, navigate to the place where you see the `edges` folder listed, select it with a click, and then click on the **Open** button
(d) repeat steps (b) and (c) for the `assign1images` folder
(e) close the **Set Path** window - you will be asked whether you want to save the changes for future MATLAB sessions – click on **No** (MATLAB won't actually let you save)

Finishing Up

At the end of class, upload your `assign1` folder (or entire `cs332` folder) to your personal directory on the CS file server.

Continuing your work on this assignment at a later time

In the future, you can again download the `edges` and `assign1images` folders from the course directory as described above, but download the `assign1` folder from your personal directory. Also repeat steps (2) and (3) above. If you make changes to the code files in your `assign1` folder, be sure to upload the modified files onto your personal directory.

Problem 2: Analyzing intensity changes in a two-dimensional image

```
edit yachtScript.m          % open yachtScript.m in the editor
yachtScript;                % run the script file in the Command Window
```

Drag apart the Image Tool windows to view them separately, and use the Pixel Region tool or the zoom-in icon to view the results in more detail.

```
displayImage(zc4,8);        % display the slopes of the zero-crossings
displayImage(zc8,16);
```

MATLAB programming tips: Terminating a program, clearing and closing

When a MATLAB program is running, the word "Busy" appears in the lower left corner of the main MATLAB window. Execution can *usually* be terminated by typing **control-C**. The following commands are also handy:

```
clear all                   % clear all variables from the Workspace
close all                   % close all windows opened with figure or imshow
imtool close all            % close all windows opened with imtool
```