

Bash Homework 4

CS 6014 Introduction to Computation as a Research Tool

March 2013

Due: 27 Mar. 2013

Information for Submission Requirements:

- Upload your script file to Collab
- Paste the output from the specified sample run into the text box in Collab
- Paste a listing of the files from the directory used for this assignment into the text box in Collab.

Tasks:

One of the most common tasks for which it is handy to know some scripting is to go through a list (or array) of file names and do something to each one. For this assignment, write a script that will perform the following operations.

1. Get the list of all file names ending with jpg into an array. (Note: this script should work with any directory that has JPEG files in it.)
2. Print "The number of JPEG files is <number>" where <number> is the correct value for your set of files.
3. Print "The last one is <name>" with the name of the last file in the array.
4. For each JPEG file, if it is not empty use the convert command on it to convert it into a PNG file. The PNG file should have the same base name as the corresponding JPEG file; it should differ only by the file extension.

The syntax for convert is

convert filename.jpg filename.png

5. In each case check the return value of convert (you learned how to do this for functions; it is done the same for commands you call within a script). If it is OK (i.e., a return value of 0), delete the old JPEG file; otherwise, print an error message.

Test your script by running it in the directory you created for Bash HW 2 (some_pics). If you no longer have that directory, make another one and copy the contents of /share/apps/tutorials/unix/funny_pics into it. After you run your script, ls the directory and paste the result into the Collab textbox.

Note: You are on your honor to do your own work on this assignment.