CMSC 4113/5313
Human-Computer Interaction
Assignment 1

Using Java Swing, develop a desktop application for viewing images, similar to Windows Photo Viewer (see screenshot below). Your application must:

1. (1 point) Allow a user to input/select/choose a folder (directory) containing image files that she/he wants to view.

2. (2 point) Show the user one image at a time (you may show smaller previews of the next/previous or other images).

3. (5 points) Provide the user with at least five (5) ways to change the currently viewed image to the next image within the selected folder. (For example, a button, a menubar item, keyboard shortcuts, etc.) Changing to the previous image vs. next image with the same kind of control (e.g. a button) does not count as two methods of changing the image.

4. (1 point) Behave reasonably when the user resizes the application window (e.g. automatically resizing the image).

5. (1 point) Behave reasonably when the image is larger (resolution) than the displayable area of the window/desktop (e.g. resizing, being pan-able)

You do **not** need to support any image formats that are not supported by Java Swing innately. You do **not** need to provide any image editing capabilities (including deleting image files).

You must complete the assignment by Monday, January 16 at 11:59 PM and submit the source code (not compiled class files, nor a JAR) on Blackboard. Should Blackboard be down or unavailable, you may e-mail the source code files to nicolas.grounds@oc.edu

Some extra credit can be granted for creative extensions to the basic requirements listed above.