

Rookie having problems with some filter code. Any help?

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- *From:* Don Bruder <dakidd@xxxxxxxxxx>
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Hi folks.

As the subject line says, I'm a rookie when it comes to image processing. I've stumbled onto a few resources online, most notably Frederic Patin's paper titled "An Introduction to Digital Image Processing" (available at <http://www.gamedev.net/reference/programming/features/imageproc/> as of the time I write this), and that's given me a lot of the background info I need to hack together some basic image-handling routines, but I'm having troubles with the results coming out of them - Quite possibly due to the fact that I'm such a total greenhorn when it comes to writing code to do digital image processing.

I'm not sure if the problems I'm having stem from me being so green at the subject, one or more errors in Frederic's paper and/or example code, artifacts of converting his code (originally written to target Windows by way of a library called "Allegro 4.0") so it can run on a Macintosh, my improperly "replacing" some of the Allegro routines with Mac-centric versions, a combination of all these factors, or something completely off the wall, but whatever the cause, it's clear to anyone taking even the most casual glance at the results that my code is failing miserably.

The code in question (commented to the point of ridiculousness for this post, since I haven't got a clue who might read it and wonder what on earth it's trying to do) as well as a "raw" image and the results of shoving that image through my attempt at a matrix-convolution based sharpness filter, plus a link to Frederic's paper, can be seen here: <http://www.sonic.net/~dakidd/Filterproblems.html>

If any of you have any suggestions for me as to how/why things are going bad, and/or how to fix them, I'd be thrilled to death to hear from you, either here on the group, or via email. (Just pay attention to my anti-spam measures, as noted in my .sig, if you try to reply to me via email.)

I'd also welcome any pointers to more and/or better info on coding digital image processing stuff, if anyone would care to point me in the right direction. (Please... Spare me the "google it" - I've been wearing

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out my eyeballs trying to figure out what is and isn't relevant in the
literally millions of results google hands me)

At this point, I just plain don't care how slow/inefficient/etc the code
I'm working with