Re: dilation

Source: http://sci.tech−archive.net/Archive/sci.image.processing/2006−07/msg00076.html

- *From*: "vonschwartzwalder" <vonschwartzwalder@xxxxxxx>
- *Date*: 12 Jul 2006 07:42:28 −0700

Your English is much better than my Italian!

I took your code and converted it to Java (easiest for me right now),
leaving your comments and using your variable names.

It works. I did make a couple of subtle changes:

− In that final inner loop I changed the indexing to remove the '−k'
from the indices
− In that final loop I changed the indexing to be inside the tempimg

The above shouldn't have caused you to get results that were identical
to the input. For me, they gave incorrect output (result was placed
one pixel off, and I had array index out of bound errors).

If you are actually getting the same output as input I suspect that you
are not working on the image data you think you are. You may want to
check your pointer, and perhaps print them out to see what you are
using exactly. I could do that if I had your library and used c++ and
....

From what I can see, your algorithm works and produces correct results.

It appears to be your implementation that is at fault. I've included
my code below so you can compare them and look for differences.

I hope that helps,

duane
==========
/**
*
*/
package mil.nawcwd.isp;

import java.awt.Dimension;

import ij.ImagePlus;

```
import ij.io.OpenDialog;
import ij.process.ByteProcessor;
import ij.process.ImageProcessor;


/**
* @author dvs
*
*/
public class Dilator {

/**
* @param args
*/
public static void main(String[] args) {

String imageName = "";

// ------------------------------------
// get input image
// ------------------------------------
if (args.length != 0) {
imageName = args[0];
}
else {
OpenDialog od = new OpenDialog("Select an image", "");
if (od.getFileName().length() != 0) {
imageName = od.getDirectory() + od.getFileName();
}
else {
System.err.println("no image selected");
return;
}
}

// open image
ImagePlus imp = new ImagePlus(imageName);
ImageProcessor ip = imp.getProcessor();

//
```