# Installing Java 5.0 and Eclipse on Mac OS X

This page tells you how to download Java 5.0 and Eclipse for Mac OS X. If you need help, Blitz
cs5help@cs.dartmouth.edu.

**You must be running Mac OS 10.4 or later (i.e., Tiger or Leopard).** To determine which version of the
Mac OS you are running, click on the blue apple at the very upper left of your screen, and select "About This
Mac". A window will pop up, and it will tell you which version of Mac OS you are running. If you are running
10.5, you may be able to skip the Java installation step.

Note: You'll see throughout the websites references to "Java 5.0", "Java 1.5", and "Java 1.5.0". However, all
of them refer to the same version of Java. Blame Sun's marketing people. We consider them all the same, and
we'll call them all "Java 5.0".

## Downloading and installing Java 5.0

- If you are running Mac OS X version 10.5, go to this link. Where it says "File size: 136.4.7MB," click on
  the "136.4MB" to download the file.
- If you are running Mac OS X version 10.4, go to this link. Where it says "File size: 79.7MB," click on the
  "79.7MB" to download the file.
- After downloading, Apple will present you a dialog (i.e., a series of popup windows) that take you through the
  build process. You should be able to take the default choice ("Continue," "OK," "Agree," "Close," "Upgrade,"
  etc.) for all options.

  You may be asked to authenticate before continuing. This will depend on how your preferences are set. Type
  in your password as you would if you were logging in on your computer. Don't worry! This is just so that
  your computer knows you really have the authority to install something on it!

  If you don't automatically get the dialog, then double-click on the "JavaForMacOSX10.4Release7.dmg" icon,
  and you should see a disk icon named "Java for Mac OS X 10.4, Release 7". Open that by double-clicking if it's
  not already open, and then double-click on "JavaForMacOSX10.4Release7.pkg". At that point, you'll get the dialog.

- When it says "Select a destination volume", choose your hard drive.
- There should now be two files on your desktop or download area starting with "J2SE". Feel free to delete
  these after finishing the installation. You can always download them again later if you need to.
- If at any point, you see a message such as "This volume contains a newer version of Java" you can just click
  on the Close button. It means that you already had the version of Java that you need!

## Downloading and installing Eclipse

- Click this link to download the file eclipse-SDK-3.4.1-macosx-carbon.tar.gz.
- After finishing the download, you may be prompted with a warning that the file may contain an application.
  Ignore this warning and continue by clicking "Download". The Mac will then decompress the downloaded
  file automatically. If it does not, then just double-click on the downloaded file (whose name ends with ".gz").
  You should now have a folder named "eclipse" on your desktop.
- Now, you need to move the eclipse folder to your Applications directory. Double-click on your hard drive,
  and within that, double click on the "Applications" folder. Drag your eclipse folder from the Desktop into this folder.
- Inside your eclipse folder is an Eclipse application; its icon is a purple circle with three white stripes.
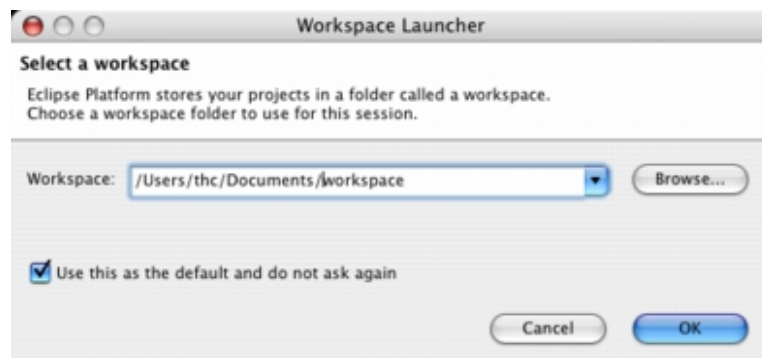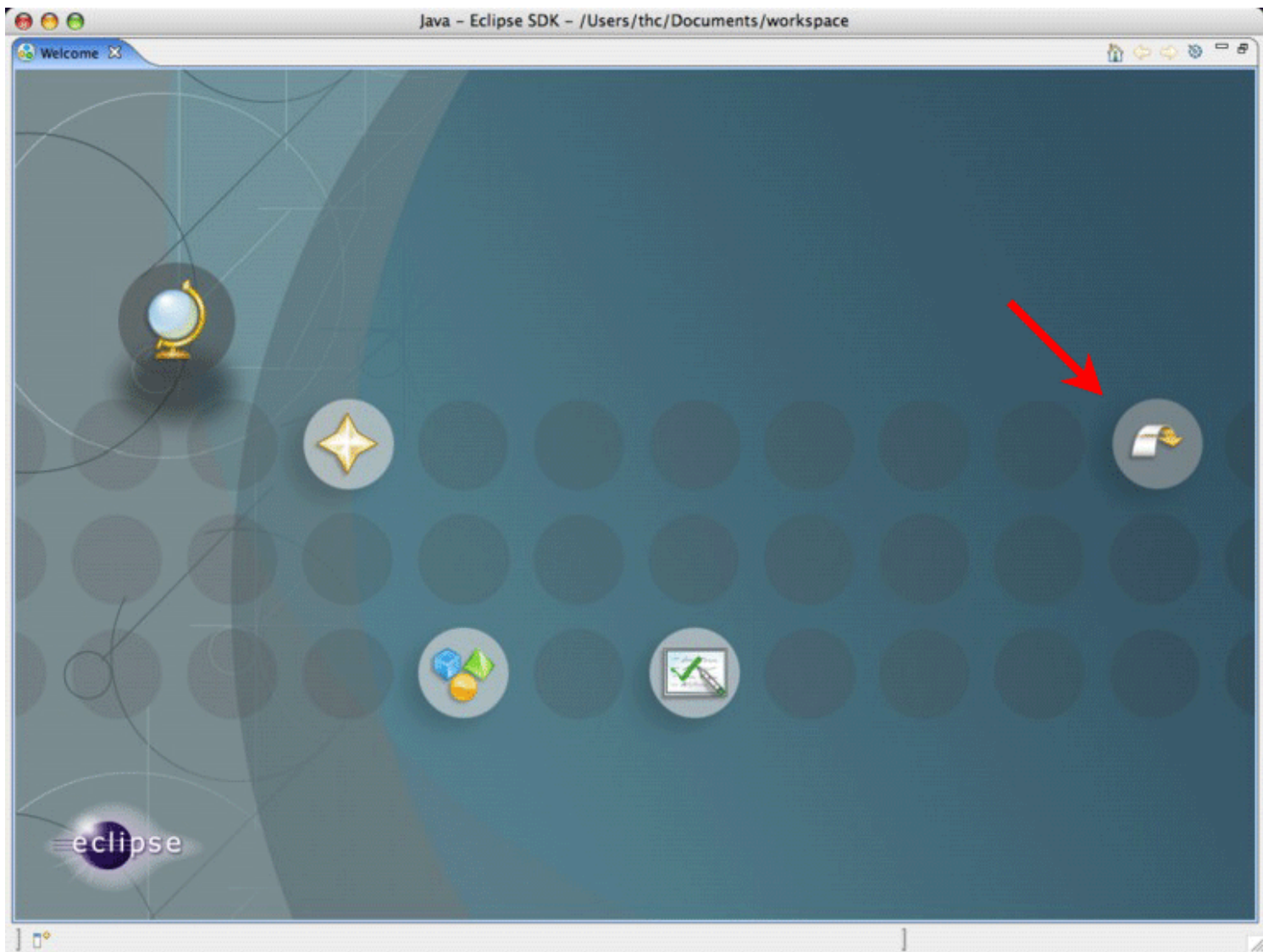
Click on this icon to run Eclipse.

- (Optional, but highly recommended.) Drag the Eclipse icon to the Dock. Click on it there to run Eclipse. If you don't drag your Eclipse icon to the Dock, then you'll have to double-click on it in your Applications folder each time you want to run Eclipse. It's much easier from the Dock. You can always remove Eclipse from the Dock later on (as in, after this course is over).

# Configuring Eclipse

- Run Eclipse.
- It asks you to select a workspace. By default, this will be a folder named "workspace" in your home directory. For example, on my Mac the default is /Users/scot/workspace. I recommend that you put your workspace in your Documents folder. If your lick before "/workspace" and enter "/Documents". (So on my Mac it becomes "/Users/scot/Documents/workspace" If you don't want to see this message every time you start up Eclipse, before clicking "OK," check "Use this as the default and do not ask again."
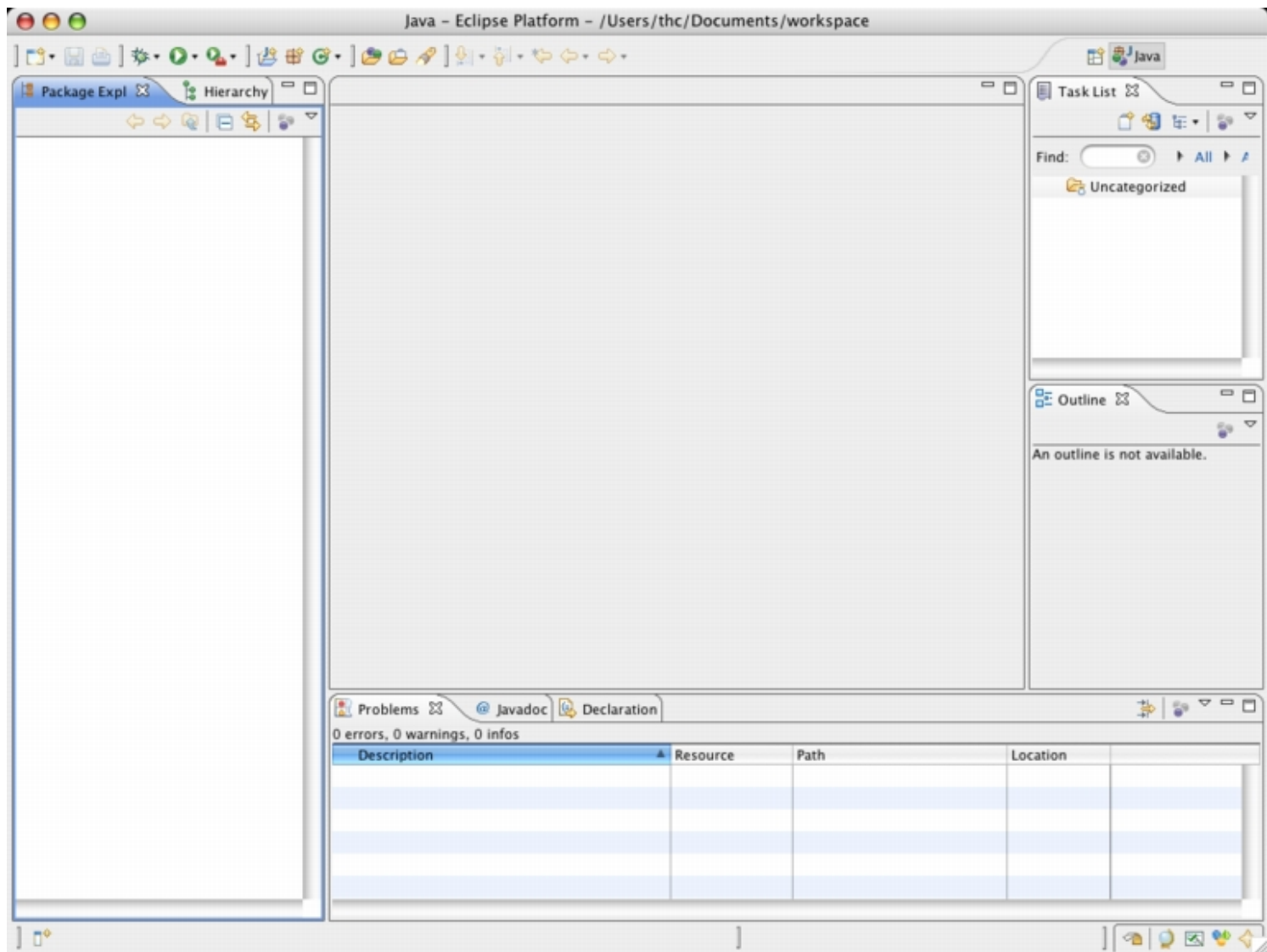


- The first time you launch Eclipse, you'll probably see this startup window. Click on the arrow symbol toward the right:

Don't worry if you don't see this startup window. You shouldn't see it again after the first time.

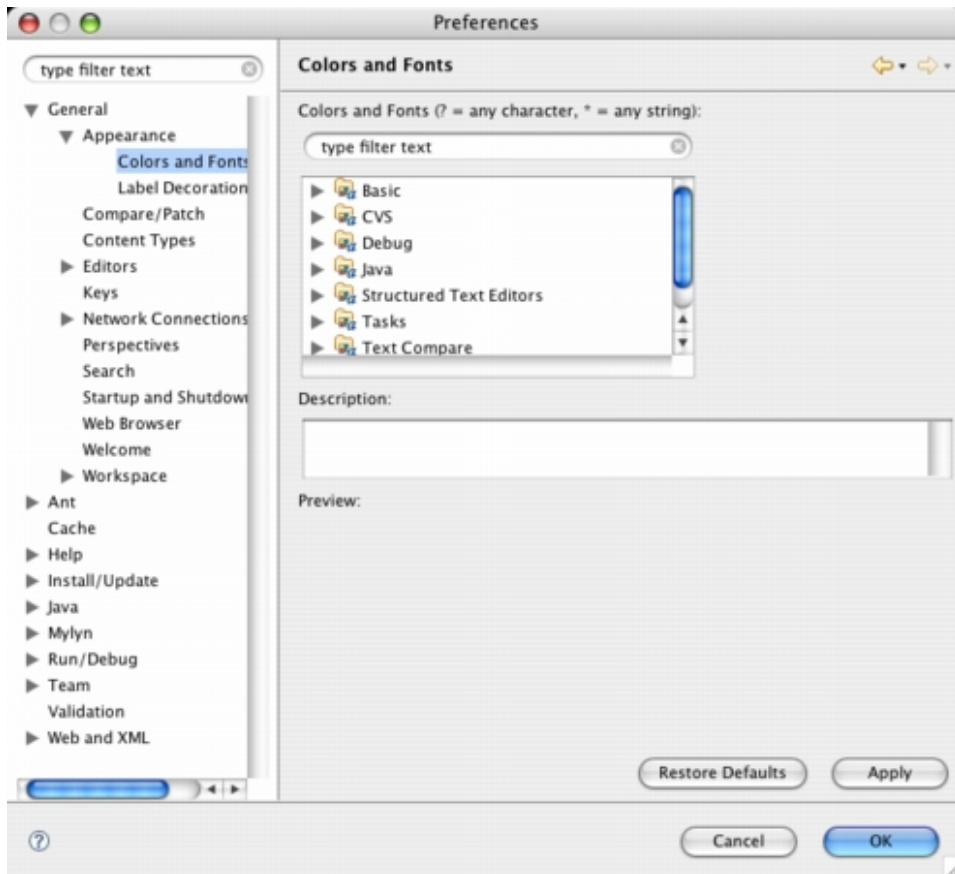- You'll see a window with various buttons and panes, but nothing of consequence in it:

Congratulations. You have installed Java 5.0 and Eclipse, and you have configured Eclipse!
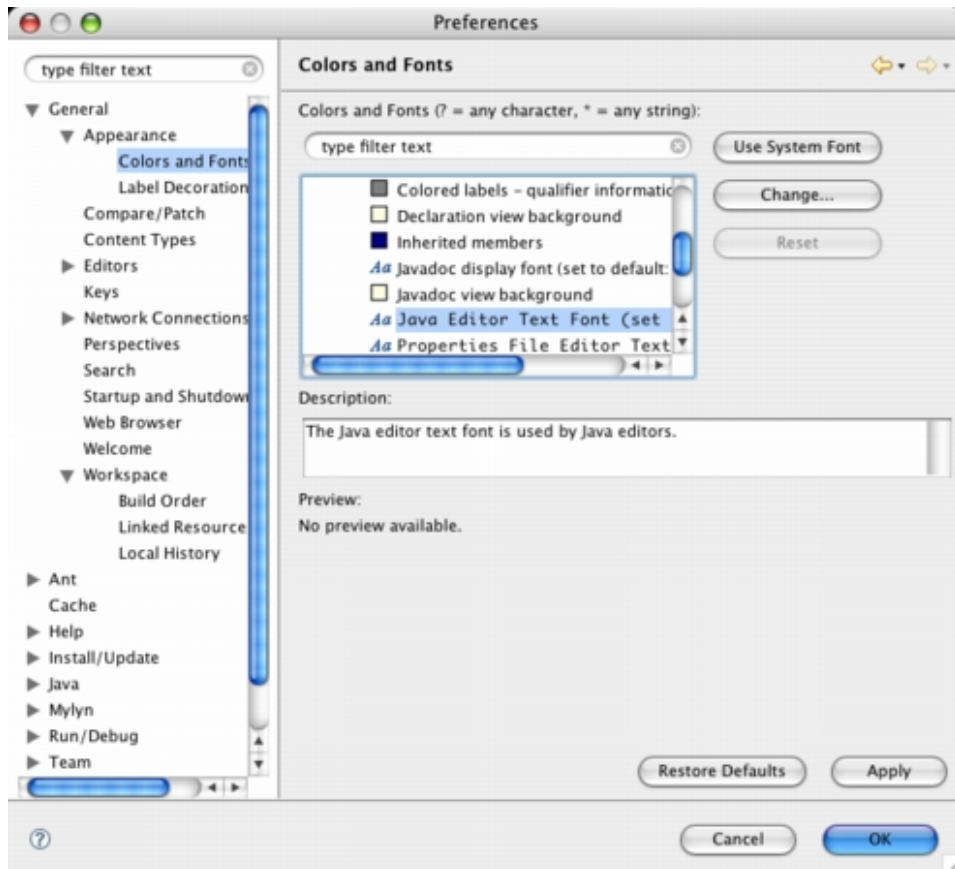
# Configuring Eclipse to make it like mine

You may want to make your version of Eclipse look like mine, so that what you see in class is what appears on your screen. Do the following.

- In the Eclipse menu bar, click on Eclipse and then on Preferences... This will bring up a window with two panes. On the left is a list of things you can configure.
- Click on the triangle to the left of "General." Then click on the triangle to the left of "Appearance." Then click on "Colors and Fonts." You should see a window like this:
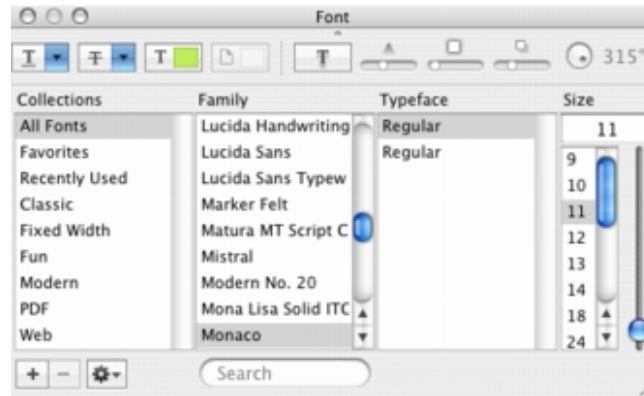
- In the scrollable window in the middle, click on the triangle next to "Java." Then scroll down within that window and *double-click* on "Java Editor Text Font."
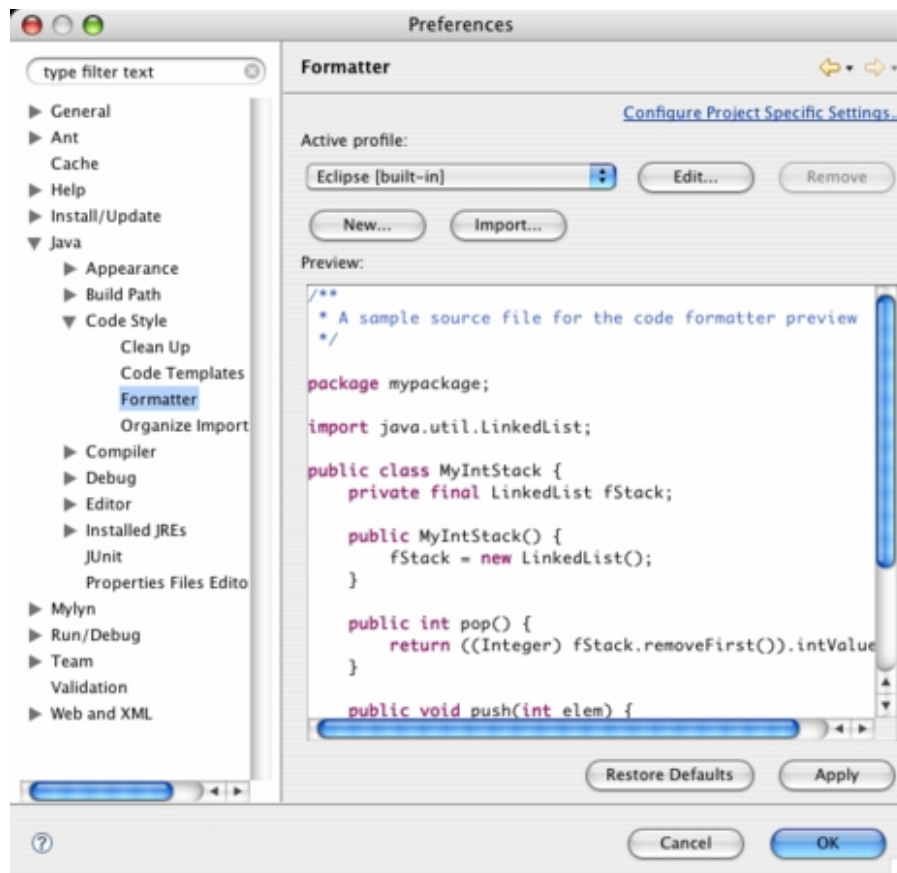


As you can see, there's some text following "Java Editor Text Font." Don't worry about it.

- The following window will pop up:



On the right, where you can select the size, click "12". Then close this window by clicking on the window's close button.

- Close up the "General" preferences by clicking on the triangle to the left of "General." Click the triangle next to "Java" and then click the triangle next to "Code Style." Then click "Formatter." Here's what you should see:



- Click the button that says "New..." You'll see a window such as this one:
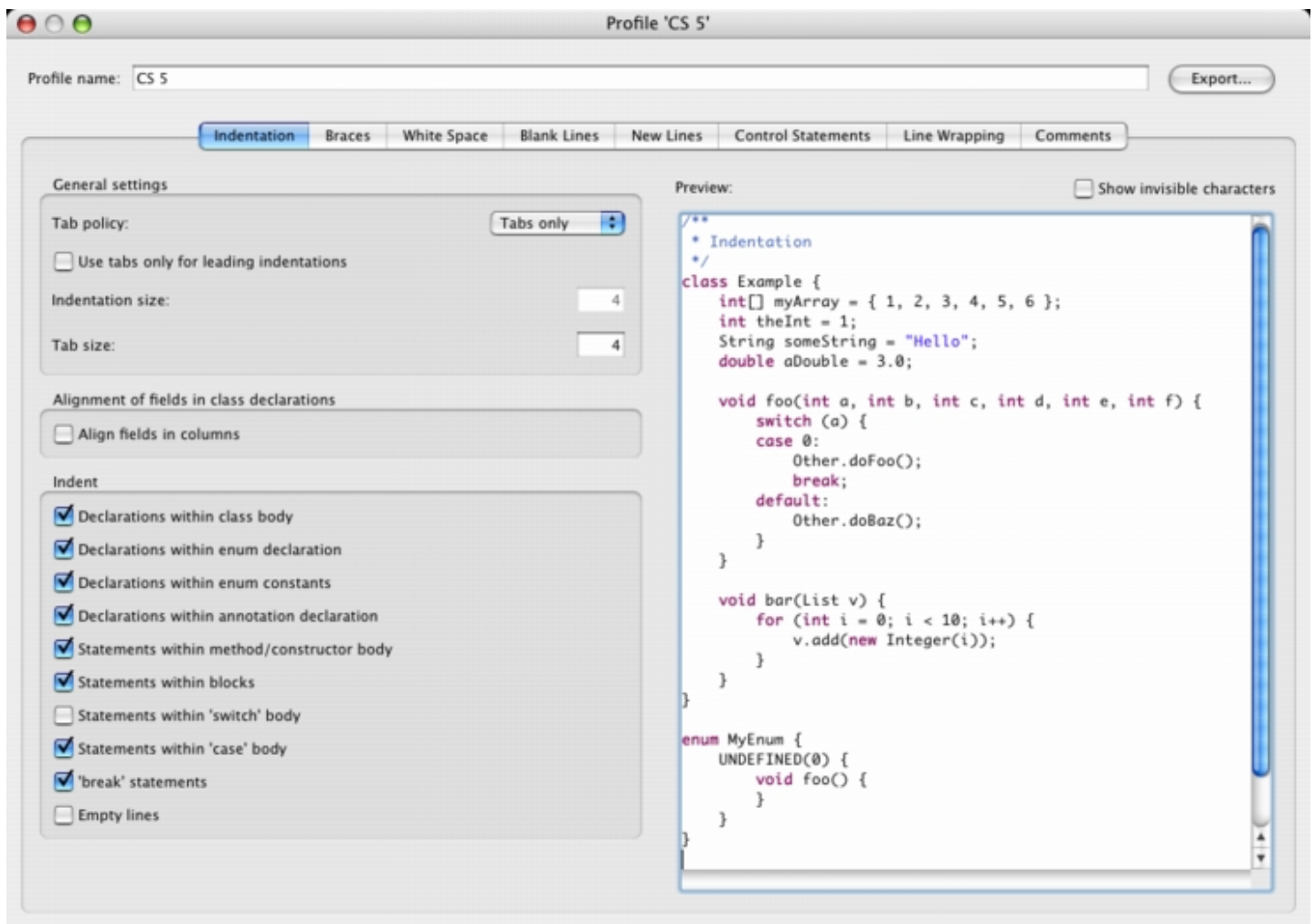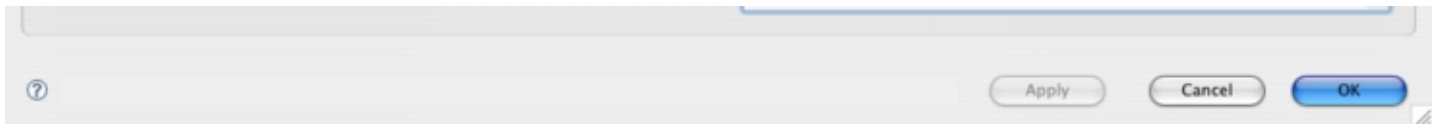
You can type in any profile name you like. I used "CS 5":
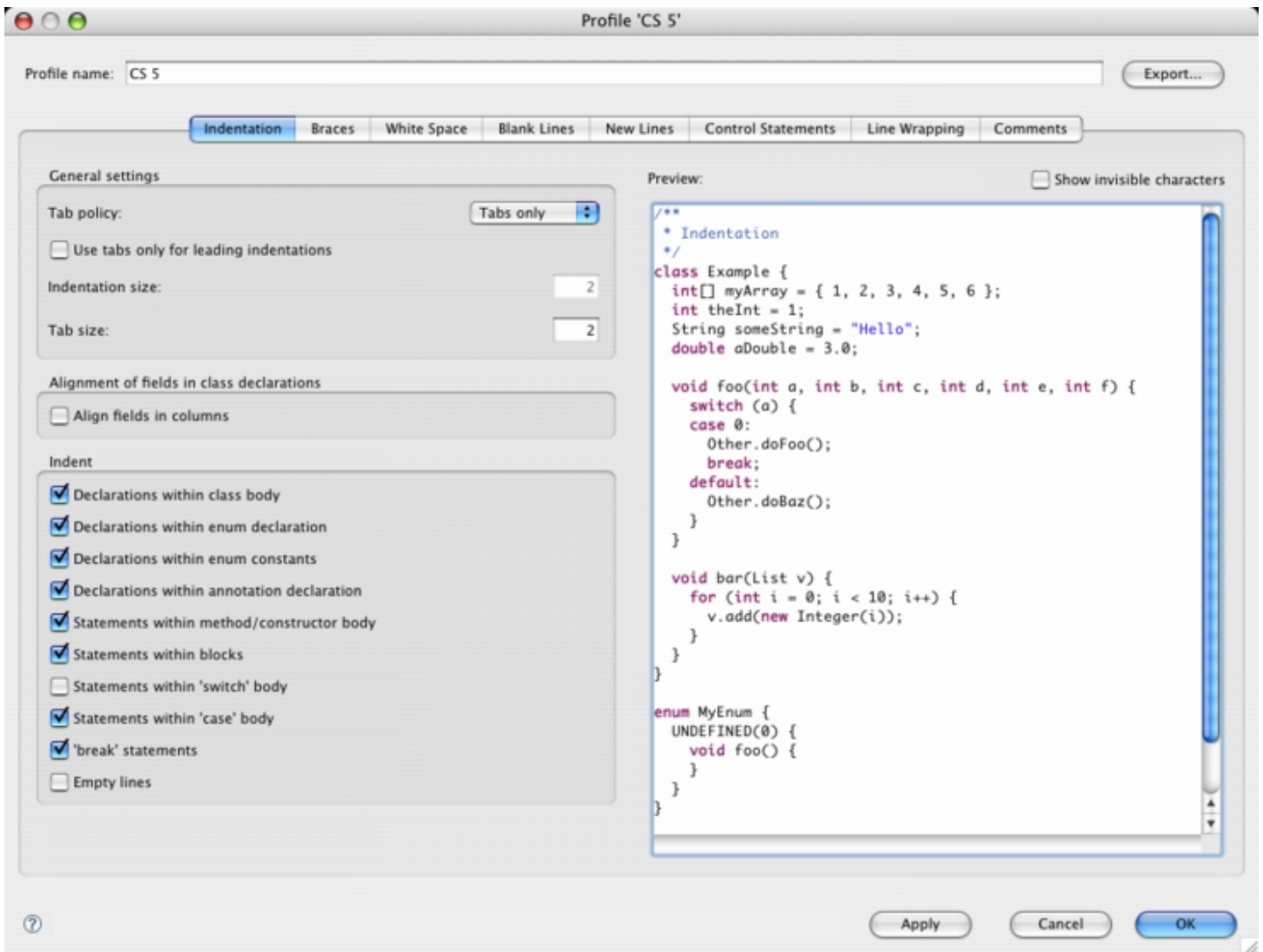
Then click "OK."

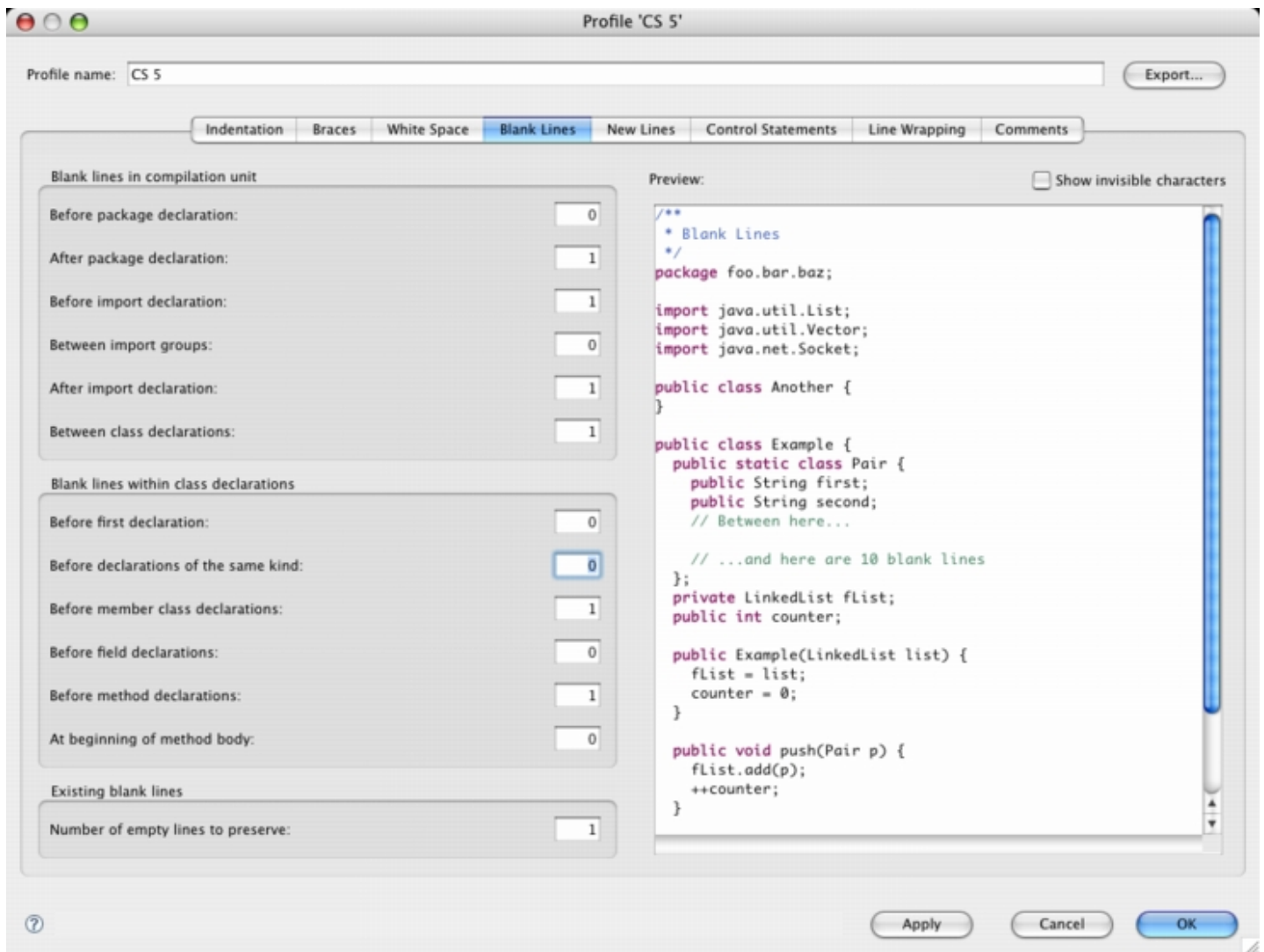- You should see a window that looks like this:
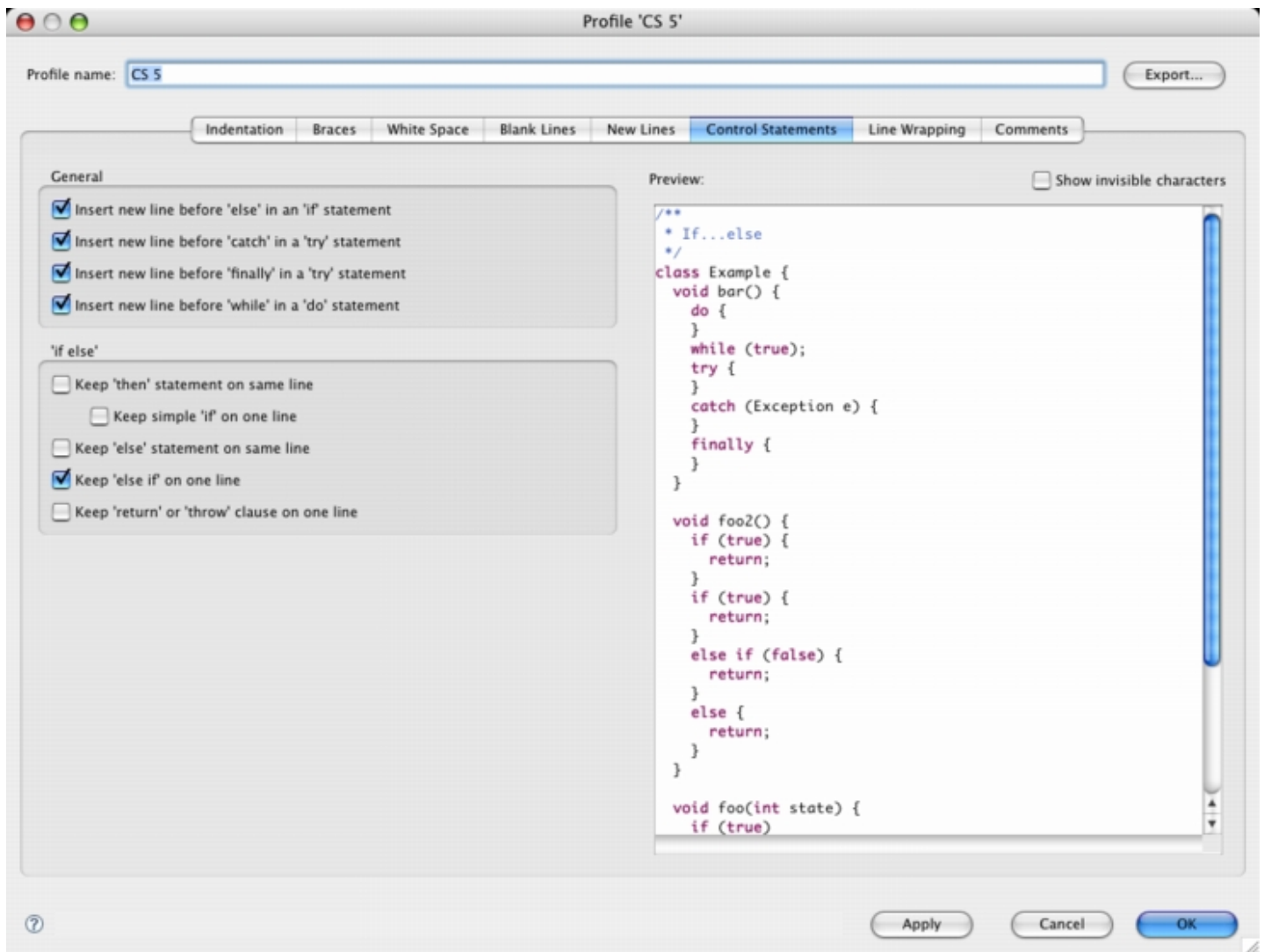
Change the Tab size to 2:



You'll see that the Indentation size automatically changes as well.

- Click on "Blank Lines," (in the menu bar across the top of the page) and after "Between import groups" and "Before declarations of the same kind," change the values 1 to 0:

Profile 'CS 5'

Profile name: CS 5                                                                    Export...

| Indentation | Braces | White Space | Blank Lines | New Lines | Control Statements | Line Wrapping | Comments |

**Blank lines in compilation unit**

| | |
|---|---|
| Before package declaration: | 0 |
| After package declaration: | 1 |
| Before import declaration: | 1 |
| Between import groups: | 0 |
| After import declaration: | 1 |
| Between class declarations: | 1 |

**Blank lines within class declarations**

| | |
|---|---|
| Before first declaration: | 0 |
| Before declarations of the same kind: | 0 |
| Before member class declarations: | 1 |
| Before field declarations: | 0 |
| Before method declarations: | 1 |
| At beginning of method body: | 0 |

**Existing blank lines**

| | |
|---|---|
| Number of empty lines to preserve: | 1 |

Preview:                                    ☐ Show invisible characters

```
/**
 * Blank Lines
 */
package foo.bar.baz;

import java.util.List;
import java.util.Vector;
import java.net.Socket;

public class Another {
}

public class Example {
    public static class Pair {
        public String first;
        public String second;
        // Between here...

        // ...and here are 10 blank lines
    };
    private LinkedList flist;
    public int counter;

    public Example(LinkedList list) {
        flist = list;
        counter = 0;
    }

    public void push(Pair p) {
        flist.add(p);
        ++counter;
    }
}
```
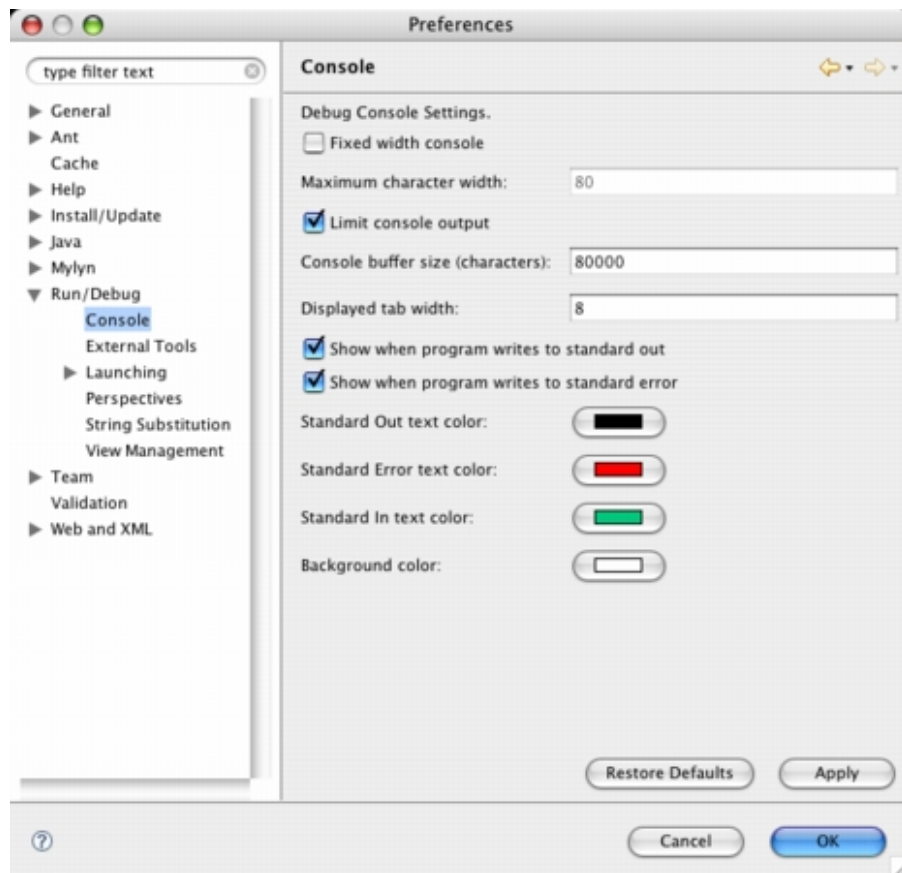
Apply          Cancel          OK

- Click on "Control Statements," and check the boxes as I've done here:
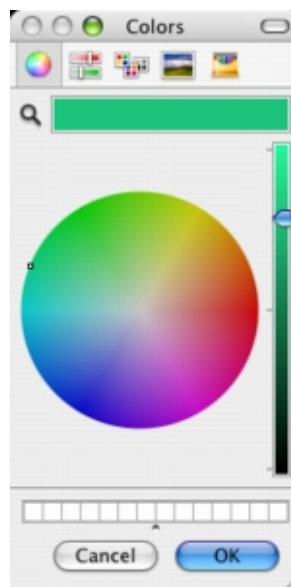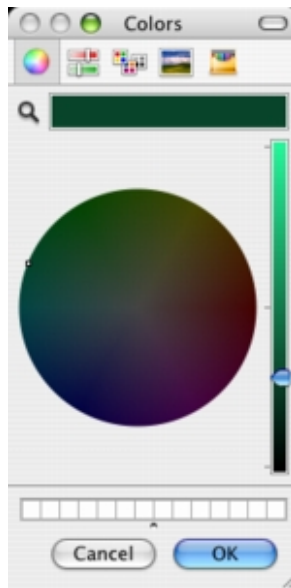
Click "OK."

- Now click on triangles to close up "Java." Click on the triangle next to "Run/Debug," and then click on "Console."

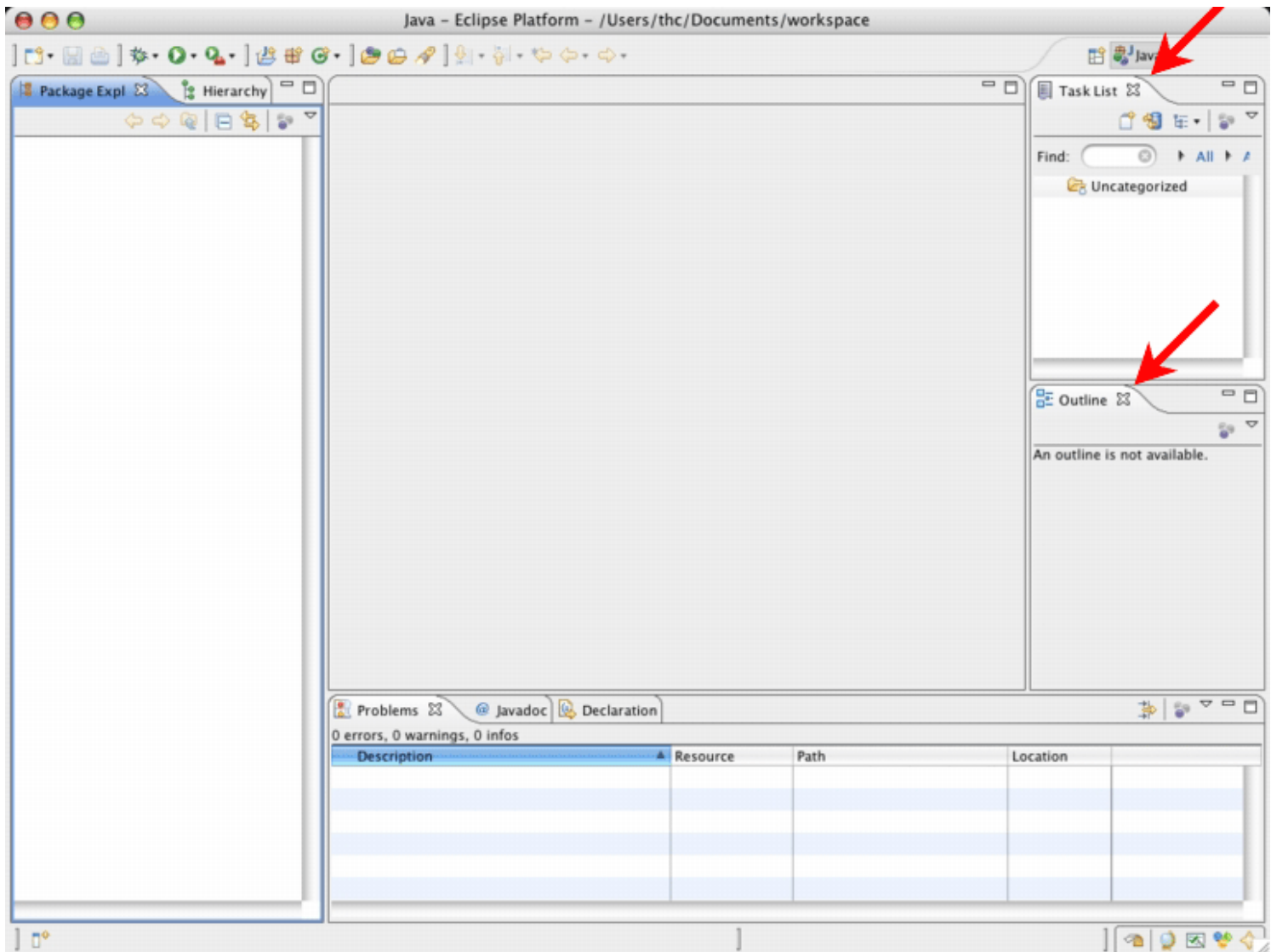- Click on the green color sample next to "Standard In text color." You'll get a color picker:



- Slide the slider on the right down, so that you get a dark green. (You're at Dartmouth. What other color could you possibly want?)
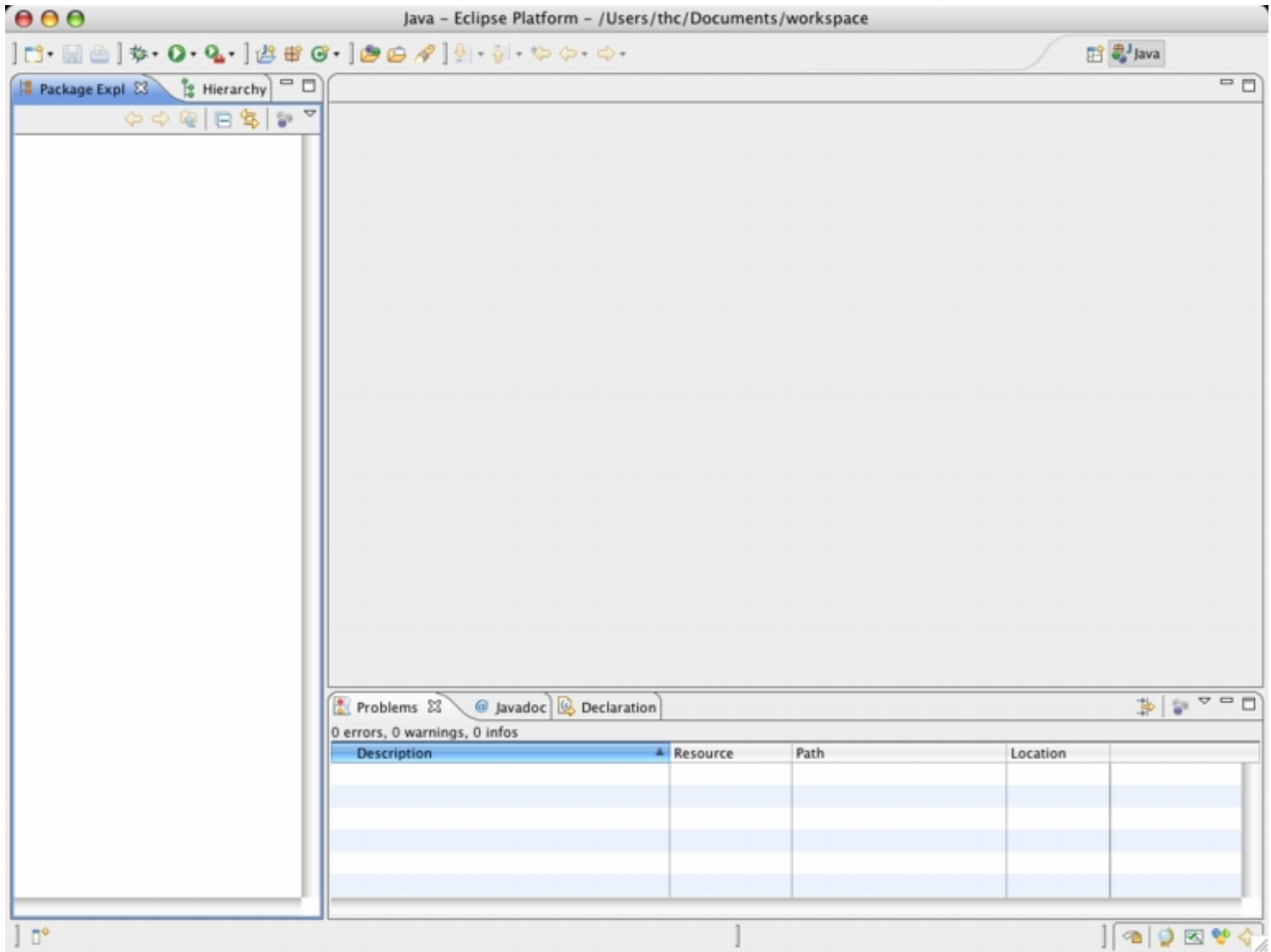
Click "OK" to close the color picker window, and click "OK" again to close the Preferences window.

- Finally, I don't use the Task List and Outline panes, which are on the right-hand side of the window. Click on the "X" next to "Task List" and next to "Outline" in the tabs of these panes:

You'll get something like this:



Now you've got your Eclipse set up the same as mine!

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[Scot Drysdale](#)
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