Assignment #4
Due: Wednesday, May 8 2002 by noon

The idea in this assignment is to give you a chance to explore Macintosh Toolbox programming a bit. It will be useful to you to know how the Mac Toolbox works and what it provides in order to compare and contrast it to utilities provided on other platforms. The idea with assignment 4 is *not* to give you a long, complicated project that will take a lot of time – so enjoy!

In this assignment you should implement a small application of your own choosing. It can be similar to the color-chooser application that you implemented for assignment 3, or you can invent some other interesting application of similar scope. Look at the functionality provided by the Macintosh Toolbox for ideas for other features you can include. Some ideas are:
- ➢ sound
- ➢ menus
- ➢ other controls

On the materials page we have linked the electronic version of the book "Learning C on the Macintosh 1.2". The first few chapters should be the most interesting and useful with respect to this assignment. In addition, we have provided the sample applications from the first two chapters. (the versions that come with the book don't quite compile as-is, so please download the archives on the course webpage)

The sample apps we have compiled are:
- ➢ SysMemRes: Loads PICT and string resources and draws them into a window.
- ➢ LowEvents: Outputs a continuous monitor of low-level and Operating System events

If you want to compile and try out more of the sample applications from the book, email David and Jan for advice on how to make them work: cs377a-staff@lists.stanford.edu

You should experiment with using ResEdit to change the resource for your application. Here are some additional tips for ResEdit:
- ➢ Use the WIND menu when the window resource is selected, to edit the window characteristics, such as its name and appearance.
- ➢ Use the MiniScreen menu to change the simulated screen size to (for example), 640x480. You will be able to better see your entire window that you are creating as a resource.

Submission: As you did last time, make a directory in the class submission directory with your username (or your usernames, hyphenated together if you are working in a group). The submission directory for this assignment is at:

/afs/ir/class/cs377a/submit/assn4/

You can then FTP your files into that directory. Please archive your CodeWarrior project directory (use the DropStuff application on any public cluster macintosh) and submit the archive to us.