To run "sketch" in Mac OS X 10.4

On the Mac "sketch" will only run under an X Window UIMS for Tcl/Tk. It will not work properly in the Aqua UIMS which is included with the system. There is a bug in the Aqua version that causes it to not handle ".xbm" (X Window image) files correctly. That means first you have to install the additional Tcl/Tk versions, and then use an X Window xterm program to launch Wish.

1. Install the Tcl/Tk version X11 for the Mac.
Download and install from website for SourceForge the Tcl/Tk Aqua 8.4.10 version of Tcl/Tk. It includes wish8.4-X11:
    Information <http://tcltkaqua.sourceforge.net/8.4.10.html>
    Download <http;://prdownloads.sourceforge.net/tcltkaqua/TclTkAquaBI-8.4.10.dmg?download

Check that it's been done:
```
[Sarah-G4:~] sarahdou% cd /usr/bin
[Sarah-G4:/usr/bin] sarahdou% ls -l wish*
lrwxr-xr-x   1 root   wheel       7 Feb  5 20:48 wish -> wish8.4
-rwxr-xr-x   1 root   admin     120 Jun  6  2005 wish8.4
-rwxr-xr-x   1 root   admin   13976 Jun  6  2005 wish8.4-X11
-rwxr-xr-x   1 root   admin     120 Jun  6  2005 wish8.5
```

These are various versions of wish: "wish8.4" is Tcl/Tk 8.4.10; "wish8.5" is Tcl/Tk 8.5a alpha release;"wish8.4-X11" is Tcl/Tk 8.4.10-X11 with a link to the Tk-X11 library.

Make symbolic link "wish-X11" to reduce typing:
```
[Sarah-G4:/usr/bin] sarahdou% sudo ln -s wish8.4-X11 wish-X11
Password:
[Sarah-G4:/usr/bin] sarahdou% ls -l wish*
lrwxr-xr-x   1 root   wheel       7 Feb  5 20:48 wish -> wish8.4
lrwxr-xr-x   1 root   wheel      11 Feb  7 07:35 wish-X11 -> wish8.4-X11
-rwxr-xr-x   1 root   admin     120 Jun  6  2005 wish8.4
-rwxr-xr-x   1 root   admin   13976 Jun  6  2005 wish8.4-X11
-rwxr-xr-x   1 root   admin     120 Jun  6  2005 wish8.5
```
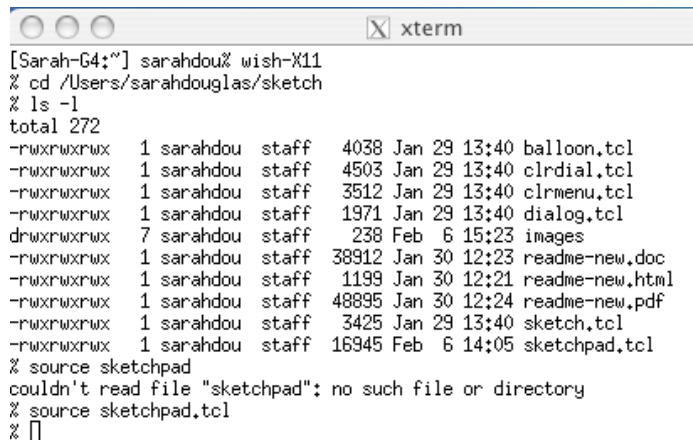
2. Install the X11 xterm application "X11" if you don't have it already in your directory /Applications/Utilities. (It is on the Mac OS X 10.4 Tiger disk in the folder "Optional Installs". This will put the X11 application in your directory /Applications/Utilities.)

3. Launch "X11" xterm.

4. Launch "wish-X11" from the xterm window.

5. Drag the "sketch" folder with all the programs and the images folder, into your top level user directory. For me, that is /Users/ sarahdouglas/

6. Using the xterm window, go to the directory and "source" the program.


```
O O O                    X  xterm
[Sarah-G4:~] sarahdou% wish-X11
% cd /Users/sarahdouglas/sketch
% ls -l
total 272
-rwxrwxrwx   1 sarahdou  staff    4038 Jan 29 13:40 balloon.tcl
-rwxrwxrwx   1 sarahdou  staff    4503 Jan 29 13:40 clrdial.tcl
-rwxrwxrwx   1 sarahdou  staff    3512 Jan 29 13:40 clrmenu.tcl
-rwxrwxrwx   1 sarahdou  staff    1971 Jan 29 13:40 dialog.tcl
drwxrwxrwx   7 sarahdou  staff     238 Feb  6 15:23 images
-rwxrwxrwx   1 sarahdou  staff   38912 Jan 30 12:23 readme-new.doc
-rwxrwxrwx   1 sarahdou  staff    1199 Jan 30 12:21 readme-new.html
-rwxrwxrwx   1 sarahdou  staff   48895 Jan 30 12:24 readme-new.pdf
-rwxrwxrwx   1 sarahdou  staff    3425 Jan 29 13:40 sketch.tcl
-rwxrwxrwx   1 sarahdou  staff   16945 Feb  6 14:05 sketchpad.tcl
% source sketchpad
couldn't read file "sketchpad": no such file or directory
% source sketchpad.tcl
% []
```

7. The GUI for sketch should look like this when the menu is down.