

## Running Ishmael on a Mac

Ishmael runs under Mac OS X using the Windows emulation environment WINE:

- 1) Download WINE for Mac OS from <http://www.kronenberg.org/> . This version of WINE is not officially supported by the WINE project, but it seems to work fine. (There *are* supported versions on the WINE web site <http://wiki.winehq.org>, but they aren't installable versions – you have to compile them and it gets complicated.) At that web site, click on WineBottler, then click the download link, then the link whose name starts with “WineBottlerCombo” and ends with “.dmg”. Store that .dmg file somewhere on your hard drive.
- 2) Unpack the .dmg file by double-clicking on it. It should open up to a window named “WineBottler Combo” with 4-5 icons.
- 3) Click and drag the icons named Wine and WineBottler from the WineBottler Combo window to your Applications folder in a Finder window. The Applications folder is under the main “Macintosh HD” drive in the Finder.
- 4) Launch the Wine environment by double-clicking on it in the Applications folder. A bunch of dialog boxes appear to ask you questions; use the default choices (i.e., click OK or whatever else is suggested) for these. You'll end up with a window named “Change Prefix”, which you can close. You should also have a wine glass icon in the bar at the top of the screen – this is how you access most WINE functions.
- 5) Download Ishmael from its downloads page, <http://www.bioacoustics.us/ishmael.html>. Use the “beta“ version there. Store it in the Applications folder on your Macintosh HD.
- 6) In the Mac's Finder, find the Applications folder where you saved the Ishmael download and double-click on the download to unpack it. You can unpack it in the same folder where the download is; you may need to create a new folder for the files if your un-zipper doesn't do this. You should end up with a folder whose name is “Ish\*install” (here and below the ‘\*’ stands for some number of characters in the name). Inside that folder is a file named “Ish\*install\*.zip” Double-click on the .zip file to unpack it; you can store it in the same directory the .zip file is in. You should end up with a file named “Ish\*install.exe”.
- 7) Click on the wine glass icon in the bar at the very top of the screen and choose “File Manager”. You'll get a file hierarchy browser named “Wine File” similar to the Finder, or to the Windows Explorer one you see on Windows machines.
- 8) Wine sets up a file hierarchy somewhere on your Macintosh HD that resembles the main C: drive on a Windows computer, but this C: drive is not the *same* as your Macintosh HD, it's a subfolder somewhere within (under) your Macintosh HD. To see your full Macintosh HD, click the button near the upper left of the “Wine File” window that's to the left of the button labeled “Shell”, and that has a “/” character and a box-like icon with an “X”. This will give you a file hierarchy browser for your full Macintosh HD.
- 9) In that file hierarchy browser for Macintosh HD, find “Applications”, then under that the “Ish\*install” directory, then under that the “Ish\*install.exe” file. Double-click it to start installing Ishmael.

- 10) In the installer, accept the default locations to install. This puts Ishmael in a folder named “C:\Program Files\Ishmael” – that is, under the folder that WINE has set up to resemble a Windows file hierarchy.
- 11) In the Wine File window you should have a sub-window named “C:\”. (If you don’t, you can get one by clicking on the button below the menus in the Wine File window named “C:\”.) In that sub-window, navigate to “C:\Program Files\Ishmael\Ishmael2.0\bin”. (The “2.0” part might be different if you downloaded a different version of Ishmael.) There should be a bunch of files with the extension .dll as well as one named Ishmael.exe. Double-click on Ishmael.exe to launch it. For reasons I don’t understand, it sometimes pauses 20-30 seconds while launching, but it should eventually run Ishmael.
- 12) Have fun with Ishmael! If you need help, the User’s Guide PDF is in ““C:\Program Files\Ishmael\Ishmael2.0”. The current version is for Ishmael 1.0, but much of it applies to Ishmael 2.0 too.