

## Install PureData 0.50-2 for MacOS

1. Download PureData 0.50-2 from Miller Puckette's Web site. Use the compiled versions for macOS 10.6 and later, or Windows 654 bit.

<http://msp.ucsd.edu/software.html>

2. Open the tar.gz archive and copy the application to your Applications folder and run it. On newer Mac systems, you will need to right click on the application, and choose "open" and then "Open" again from the pop up warning windows.

3. When Pd first runs, it will ask about making a folder in your Documents folder. Say, "yes". It will create a Pd folder, as well as a subfolder called "externals".

4. From the Pd Help menu navigate to "Find externals". Pd and Max use the term 'externals' for what most programming environments call 'libraries'. It installs these with a utility called 'deken'.

First let's load Gem. Gem is a collection of components that enables Pd to work with screen graphics, including 3D and video. The current version is 0.94, accessible via 'Deken' and has been tested up to macOS 10.13.6:

Gem/0.94 (deken-archive for macOS Intel/64bi (macOS10.12+)) ... 2019-03-14-23:10:14

After installing Gem (note: the progress bar will have reached the end, but the deken window will not close), close the deken window. Open the Pd Startup preferences (Pd Menu → Preferences → Startup...). Click "New..." and enter 'Gem' (without quotes) in the 'Add new library' box. Click OK at the far right of that box, and then OK in the Startup preference pane. Quit Pd and restart it. You should see a series of GEM messages in the main Pd window.

The additional externals we will load are:

comport, cyclone, flatgui, freeverb~, ggee, jasch, markex, maxlib, zexy

Search for these from within the "Find externals" window and install the one with the newest date, uppermost in the display window. There is one exception – zexy – use this instead:

zexy-v0-0extended... - 2015-12-10 14:36:08

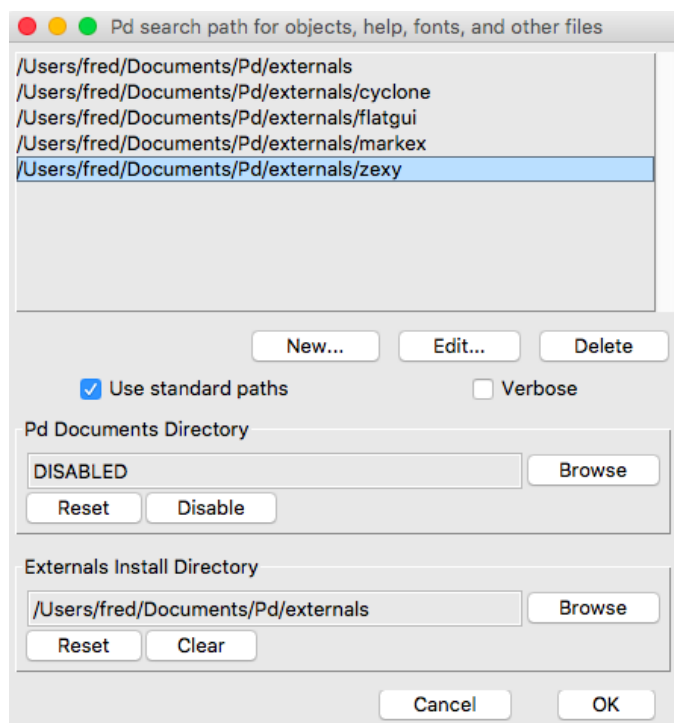
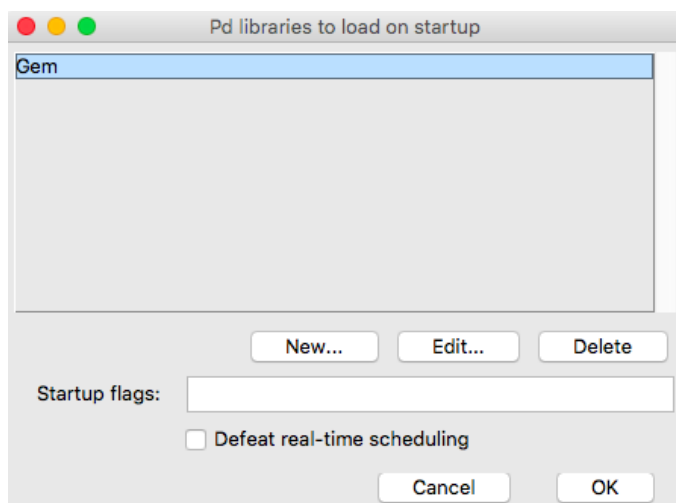
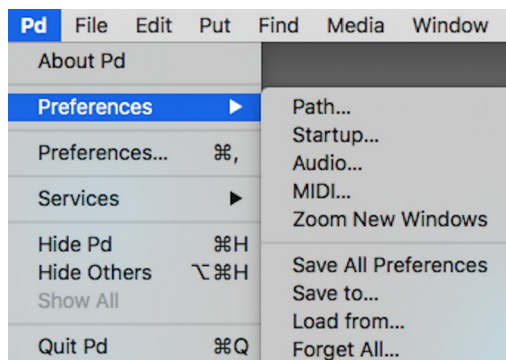
Next, open the Pd Path preferences (Pd Menu → Preferences → Path). You should see the line:

/Users/'yourusername'/Documents/Pd/externals

This points to the folder where all the externals are stored. Most of them work by having the folder referenced, as above, but some externals need to be explicitly referenced, such as cyclone, flatgui, markex, and zexy. In the Path preference pane, click "New..." and navigate to the cyclone, flatgui, markex, and zexy folders located in 'Documents/Pd/externals'. Your entries should look like this:

/Users/'yourusername'/Documents/Pd/externals  
Users/'yourusername'/Documents/Pd/externals/cyclone  
/Users/'yourusername'/Documents/Pd/externals/flatgui  
/Users/'yourusername'/Documents/Pd/externals/markex  
/Users/'yourusername'/Documents/Pd/externals/zexy

Note: Pd is an open source project with a lot of contributors and history and is in a constant state of revision. While Miller Puckette maintains the core program, externals are maintained as a labor of love by various people throughout the world. Some externals, such as hid, that were once bundled with PD Extended no longer work. You will find objects in the examples folders of various other externals that don't work, that have dotted lines. Ignore them and look for another solution; there usually is one.



6. Quit and restart Pd, and you should be up and running!