

MAT 120 — Project 1 — Fall 2018

Due date: Friday, Sep 28

1. Pd Assignment: Create a Pd patch that plays a geometric sequence (chromatic scale) with any starting frequency F and any common frequency ratio r . The notes should sound on the second and have an envelope that lasts one second. The notes should be based on pure sine tones only. F and r should be editable (changeable) by the user. Pd functions you should use: metro, osc~, vline~, *~, toggle, float, message and number boxes, as well as * and + boxes for numbers.
2. Submit a hard copy of the patch to the homework box by printing it out. You might need to first print (ie. save) it to pdf and then print the pdf file. It's a bit confusing since this probably will take several steps:
 - From Pd select print and then choose in the box a name for the file which saves it as filename.ps.
 - This is a postscript file which can be read by many programs, such as Preview on the Mac, which immediately converts it to pdf when you open it by double-clicking on its icon in Finder.
 - Print the pdf file, directly with Preview, or save it as pdf and print it somewhere else with another pdf reader.
3. Also submit a copy of your Pd patch filename.pd on the web site.