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CS 190

### Assignment 3 Writeup:

About this Max Patch:

At first I wanted to simply create a dubstep (wobble) bass using Max where the frequency and amplitude of a wave would be heavily modulated. After that I made the wobble rate and Q factor of the filter I used to be randomly generated numbers with a new value generated after each keypress.

To run this Max Patch:

- 1) Ensure that a signal is flowing through the wobble oscillator at the top right of the Patch:
  - a) Click and adjust the wobble depth and center pitch until a constantly changing signal is showing in the signal monitor (number~).
- 2) Adjust the horizontal fader to set the frequency shift (the corresponding spectroscope should display a signal).
- 3) Press on the keyboard to produce sounds, pressing on the same note several times will produce different sounds.