MUS 6: Electronic Music

Section Lecture 4

Wednesday, October 28, 2020

Lecture Outline

1. **Announcements**

2. **Homework 2** *(Part 1: Audio Filters and Automation)*

Announcements

- **Homework Assignment #2 is DUE by Friday, [Nov 6](#) at 11:59 pm**

Homework 2
(Part 1: Audio Filters and Automation)

Homework 2: Lecture schedule

- **Today:**

  - Audio filter automation
  - Dry/wet automation

- **Future lectures:**

  - Sampled audio
  - Musical scales
  - Reverb
  - Delay
  - Return tracks

Homework 2: Listening examples

- We'll now listen to a couple examples of time-varying audio filters found in popular music. We can implement time-varying audio filters using automation. (Note: these examples are described in more detail on the class OneNote page)

  - [The Chemical Brothers - Playground for A Wedgeless Firm](#)
  - [Daft Punk - Musique](#)

- Both examples use audio filter automation. The Daft Punk example uses dry/wet automation at 0:13 seconds.

- The Chemical Brothers song uses an audio filter similar to the Moog VCF filter

Homework 2: Moog VCF filter

- The Moog VCF filter is a popular low-pass filter used in electronic music.

- For those who are interested, you can follow this link to some simulation code I wrote that emulates the Moog VCF filter. You can compile the code and get a VST plugin that you can use in Ableton.

- To read more about the emulation, go here (see top of page)
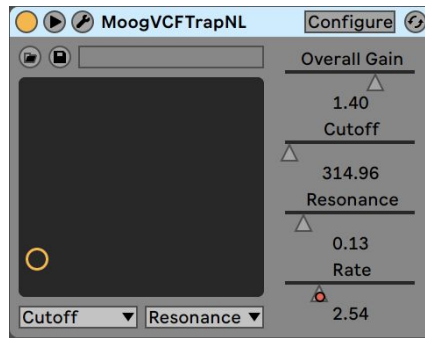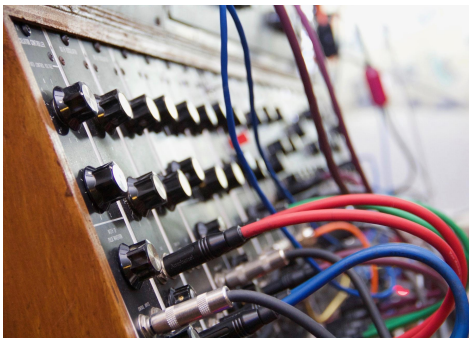
Homework 2: Class demonstrations

- Some of you may already be familiar with audio filters and dry/wet automation. If you are and have composed music using these techniques, would you like to take a couple minutes to share your work with the class?

Homework 2: Ableton Live implementation

- We'll now open up Ableton Live and review how to program audio filters and automation music. We'll use basic music theory to build a composition.

- For more information about these topics, go to the following pages on the class OneNote:

  - **Audio Filters:** Ableton -> Audio Effects
  - **Automation:** Ableton -> Recording and Editing -> Automation

Questions