

# **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

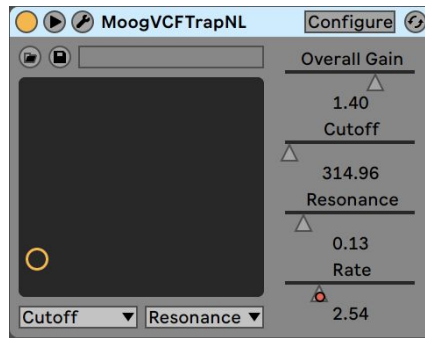
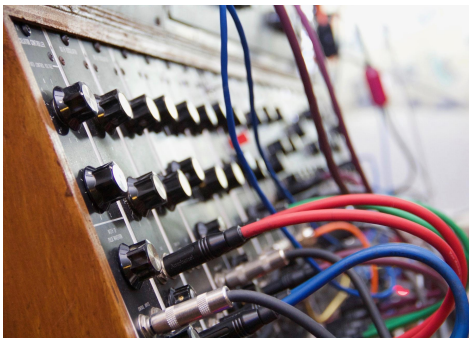
- **Today:**
  - Audio filter automation
  - Dry/wet automation
- **Future lectures:**
  - Sampled audio
  - Musical scales
  - Reverb
  - Delay
  - Return tracks

# 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 to 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