

MUS 6: Electronic Music

Section Lecture 9

Wednesday, December 9, 2020

Lecture Outline

1. Announcements
2. Homework 4 (*Part 2: EQ, Grooves, and Vocoder*)

Announcements

- Homework Assignment #4 is DUE by Wednesday, [Dec 16](#) at 11:59 pm
 - For this assignment, your song must be at least [2 minutes](#) long.
- We encourage you to submit an online evaluation for the course. We value your feedback.

Homework 4

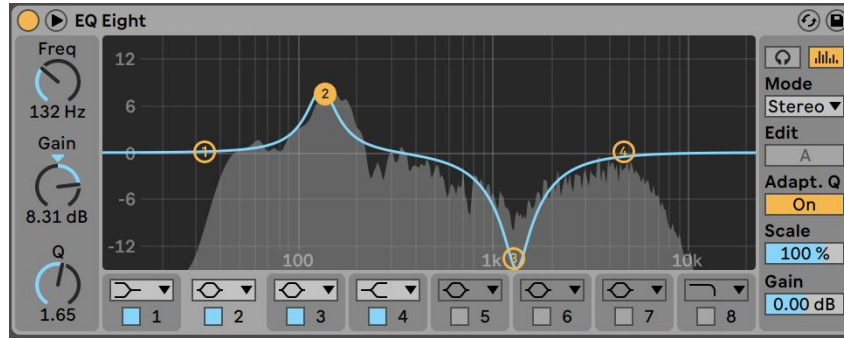
(Part 2: EQ, Grooves, and Vocoder)

Homework 4: Lecture schedule

- **Last week:**
 - Wavetable
 - Audio Effect Rack
- **Today:**
 - EQ
 - Grooves
 - Vocoder

Homework 4: EQ

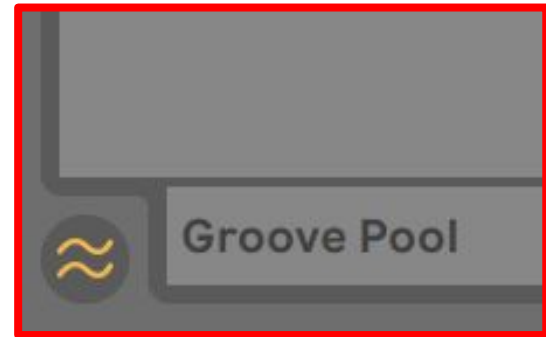
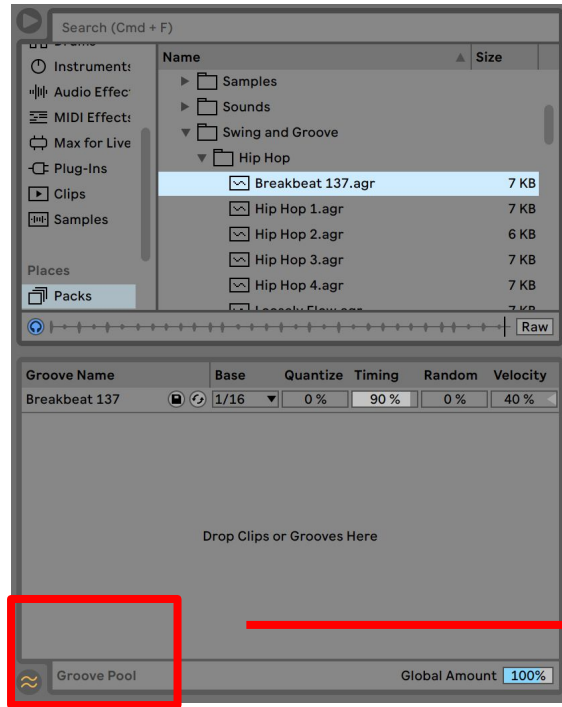
- Go to Audio Effects -> EQ Eight
- EQ Eight is an equalizer that allows up to 8 points of filter curve modification. By default, EQ Eight activates 4 of these points. You can adjust the filter curve by clicking on each point and moving it around or by turning the knobs on the left.



Homework 4: Grooves

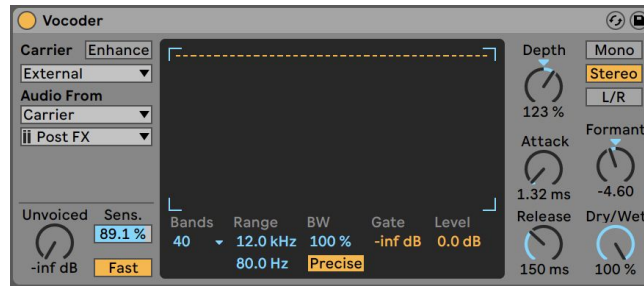
- Click the Groove Pool icon located in the bottom left corner of the Browser view (see the screenshot on the next slide).
- Grooves is a feature in Ableton that allows you to adjust the initial quantization, the timing, and the velocity of the notes in a MIDI clip to match a particular musical style.
- To add a groove, you can do either of the following:
 - Right-click in the Grooves view and select “Browse Groove Library”. Next, choose a groove from the list of options shown in the Browser view. Then, select this groove in the Clip view.
 - Select part of a sample in the Arrangement view. Right-click the selection and choose “Extract Groove”. Then, select this groove in the Clip view.

Homework 4: Grooves



Homework 4: Vocoder

- Go to Audio Effects -> Vocoder. Add Vocoder to an audio track (this is your modulator). Then add a synthesizer to a MIDI track (this is your carrier).
- In the Vocoder plugin, choose “Carrier-> External” and “Audio From-> Carrier”
- Finally, make sure to arm the modulator and arm + mute the carrier. Now when you add sounds to both tracks, you’ll hear the vocoder effect.



Homework 4: Vocoder

The screenshot shows two vocoder channels in a DAW interface. The top channel is labeled 'Modulator' and the bottom channel is labeled 'Carrier'. Both channels have a 'Vocoder' dropdown menu. The 'Modulator' channel has 'Ext. In' set to '2', a gain of '-7.3', and a 'Vocoder' dropdown. The 'Carrier' channel has 'All Ins' selected, a gain of '-5.6', and a 'Vocoder' dropdown. Both channels have 'In' set to 'Auto' and 'Off' buttons. The 'Modulator' channel has a red solo button and a blue box around the number '2'. The 'Carrier' channel has a red solo button and a blue box around the number '3'. The 'Modulator' channel has a blue box around the solo button. The 'Carrier' channel has a blue box around the solo button.

← arm modulator

← arm + mute carrier

Homework 4: Ableton Live implementation

- We'll now use EQ and Grooves to modify the cover of *One More Time* from Lecture 7. An audio clip of the modified cover is included on the section website. If time permits, we'll also modify the composition from Lecture 4. Then, we'll demonstrate how to implement a vocoder.

Questions