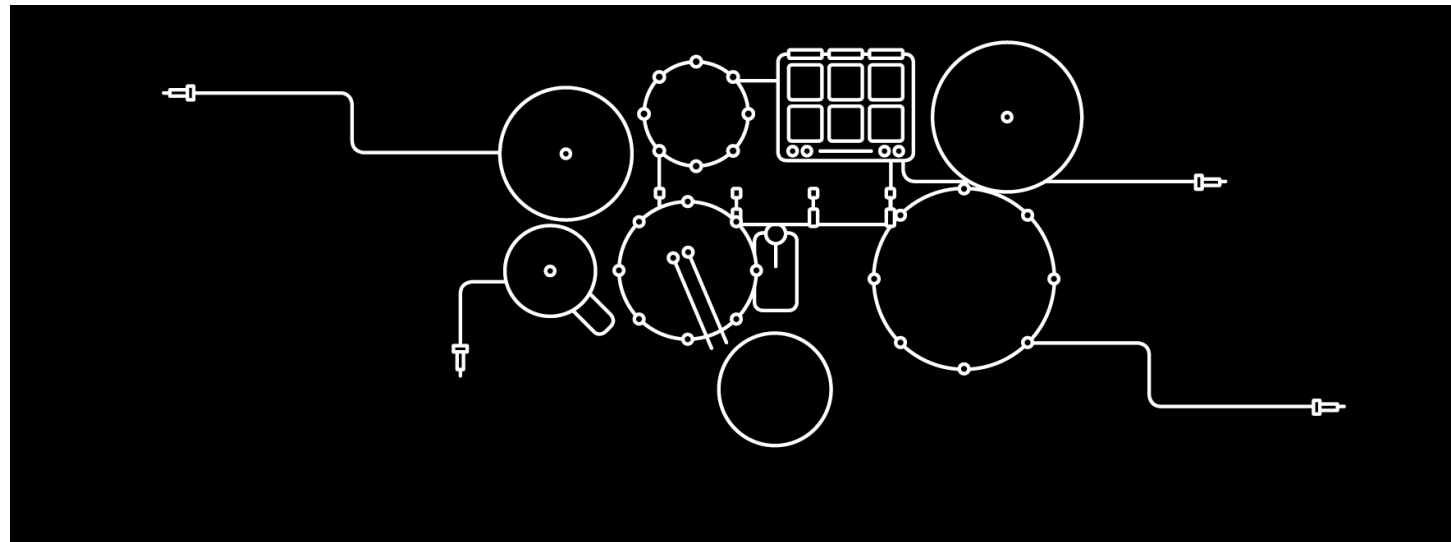


Hybrid Drumming

Class 1 - Drum Triggers



Hybrid Drumming

- Class
 - Lecturer: Yossi Adi
 - Sun. 09:00-10:30 (might start at 09:15?)
 - Mail: adios@lucillecrew.com, feel free to mail me anytime on anything
- Grades:
 - Rolling exercises
 - Final presentation

Course Overview

- Triggers
- Samples
- Playing with samples
- Sampling pads (Octapad, SPD-SX)
- Drum synthesizers (NordDrum)
- Integrate sampling pads in acoustic drums
- Ableton
- Invited talks

Course Goal

- Have fun!!
- Explore the world of samples and triggering and get experienced with it
- Develop your creativity with new world of sounds

Triggers

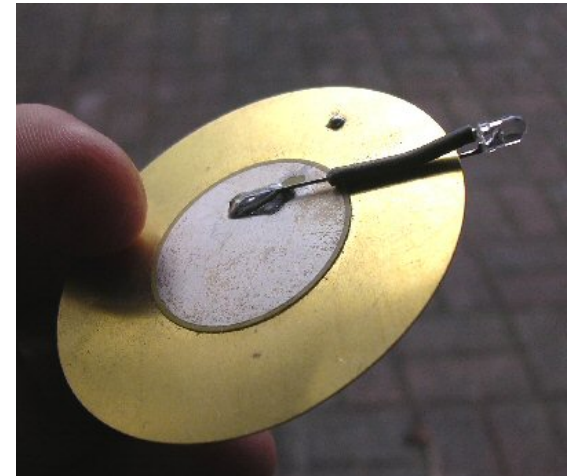
Drum Triggers

Drum trigger is an electronic transducer that can be attached to a drum, cymbal or other instrument to enable it to control an electronic drum unit or similar device

Drum Triggers

So how does it work?

Most triggers use piezo crystal technology



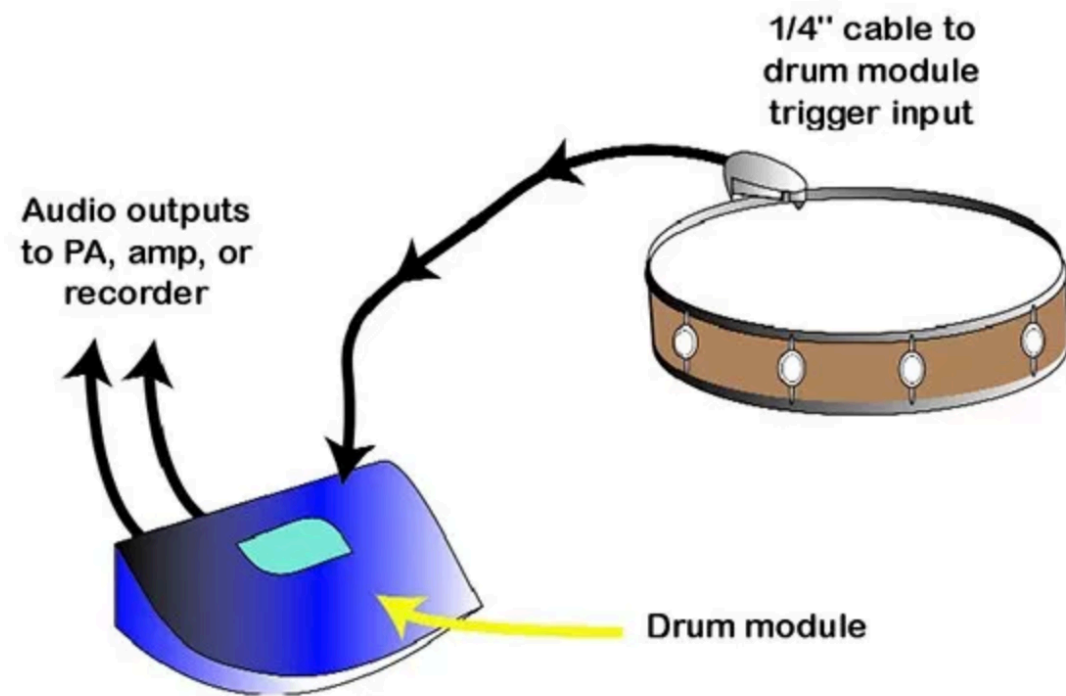
We have piezo crystals all around us daily. Any piece of electronics that beeps, like a microwave, is probably using a piezo crystal as a speaker

In drum trigger land, the crystal is used in the opposite direction. When we hit the drum, the head (or shell) motion vibrates the piezo, which creates a small amount of voltage that is sent to the trigger-to-MIDI converter

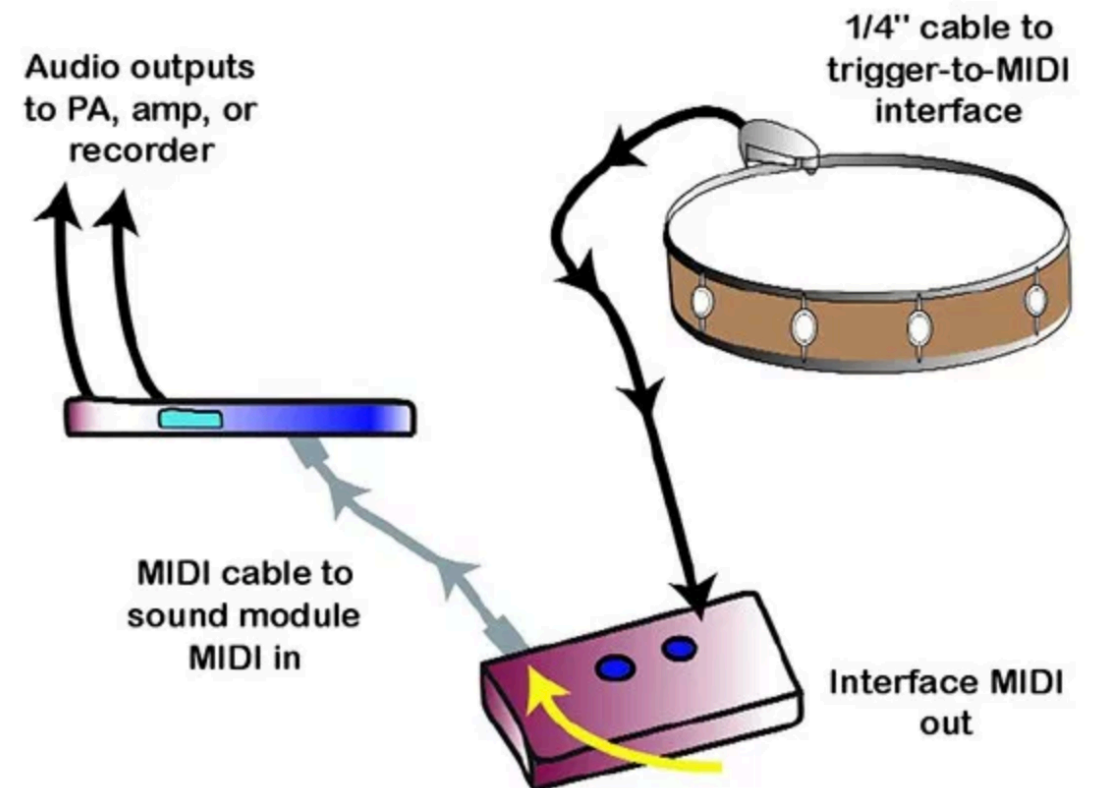
The trigger interface turns this voltage spike into MIDI information (note number, velocity, MIDI channel, etc.), and the MIDI information is sent to make the sound source play a sound

Drum Triggers Settings

Setting (i)



Setting (ii)



Drum Triggers Types

- Snare Triggers (include rim)
- Kick Drum
- Tom Trigger
- Adjustable Trigger (can move the trigger head)
- Trigger w. Built-in Sounds
- Laser Based Trigger
- Electronic Triggers
- Etc.

We can trigger anything!

Triggering Fruits

Why Using Triggers?

Why Using Triggers?

- As drummers, we have little control on how our instrument sounds to the audience! unlike bass / guitar / synth players
- Perfect for Club Gigs
 - Every room sounds different
 - Quality of the PA
 - Quality and quantity of the microphones
 - Quality of the drum set (if used)
 - Sounds engineer (is used)

Why Using Triggers?

- Recording drums has changed so dramatically that many of the albums you know were produced in small studios. Many of them just weren't designed to handle an acoustic drum set
- By triggering drums, we can play our acoustic set, record the overheads (cymbal mikes), and record our track both MIDI and audio coming from the drum sound module
- If any of the drum sounds need to be changed, we don't have to come back and rerecord our part
- This setting is also commonly used in big studios

Why Using Triggers?

Triggers can also be used as controllers in the studio
We will not get into it much in the course,
but check this out

Gating with Triggers

Limitations

- Double Triggering
- Sound issues in clubs
- Limiting what we already know on how to play drums
 - Ghost notes
 - Dynamics
 - Etc.