

The Basics of Digital Recording for Teaching and Training

Abigail Smith
Emporia State University

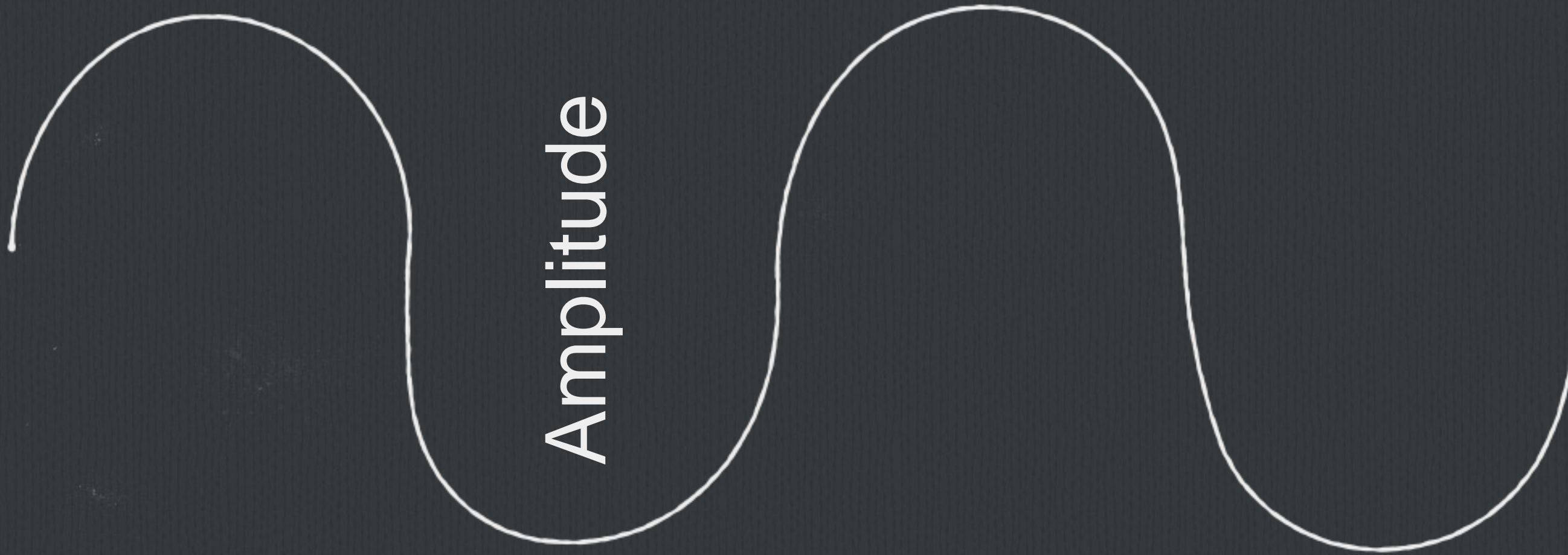
Assumptions



The Physics of Sound

Frequency (Hz)

Amplitude

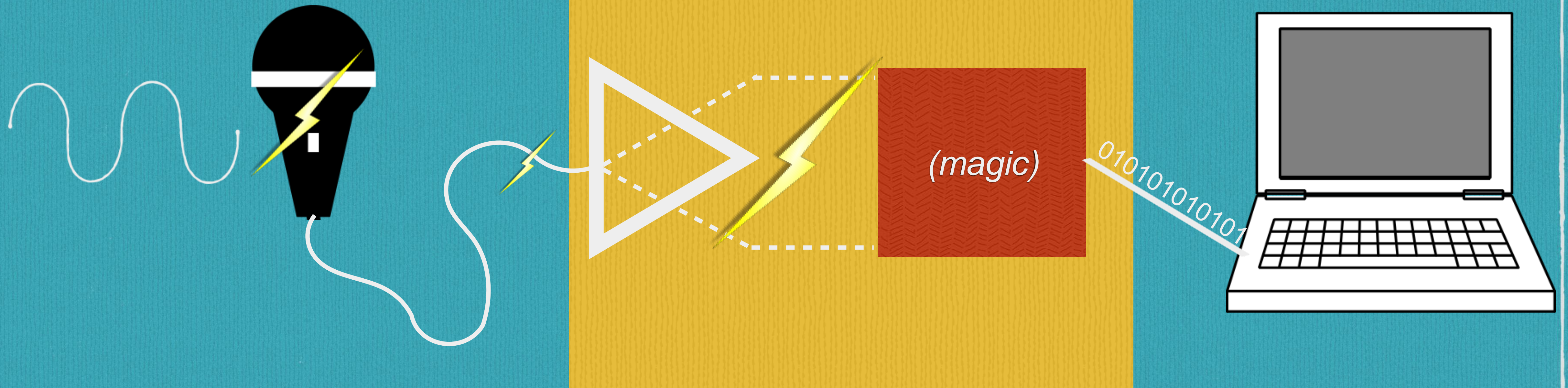


Digital Recording Signal Flow

sound microphone cable pre-amp

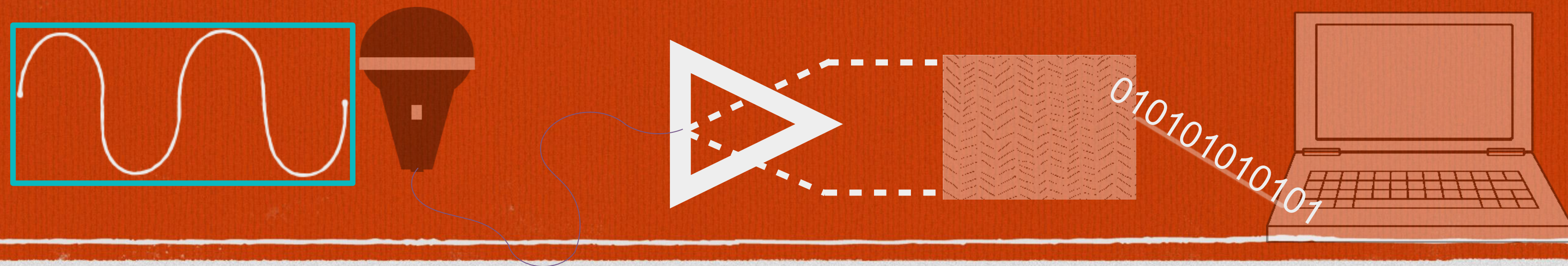
A/D converter

computer



Sound and Environment

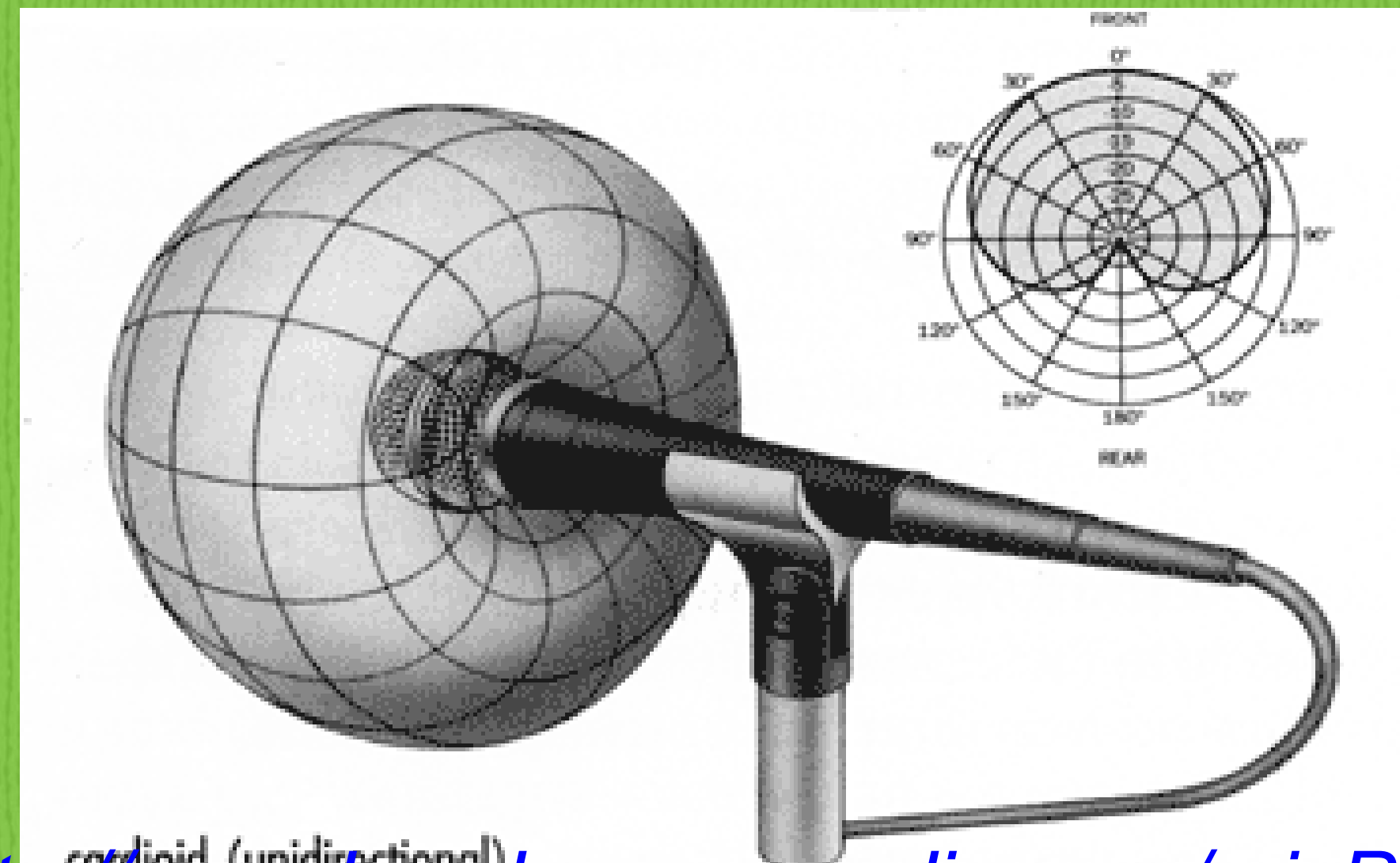
\$20-50



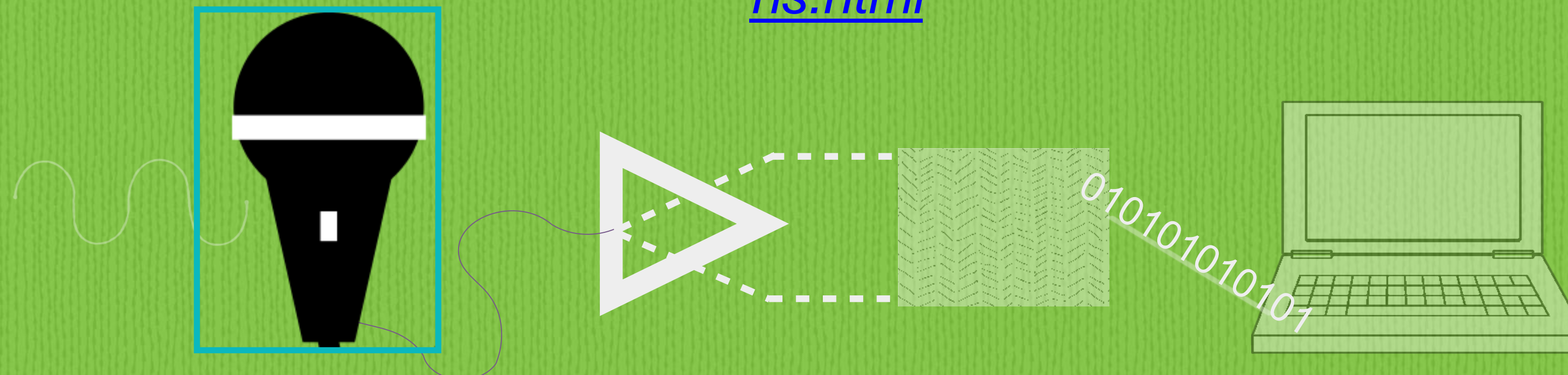
Microphone

\$50-1,000+

Dynamic
Cardioid or Super-cardioid

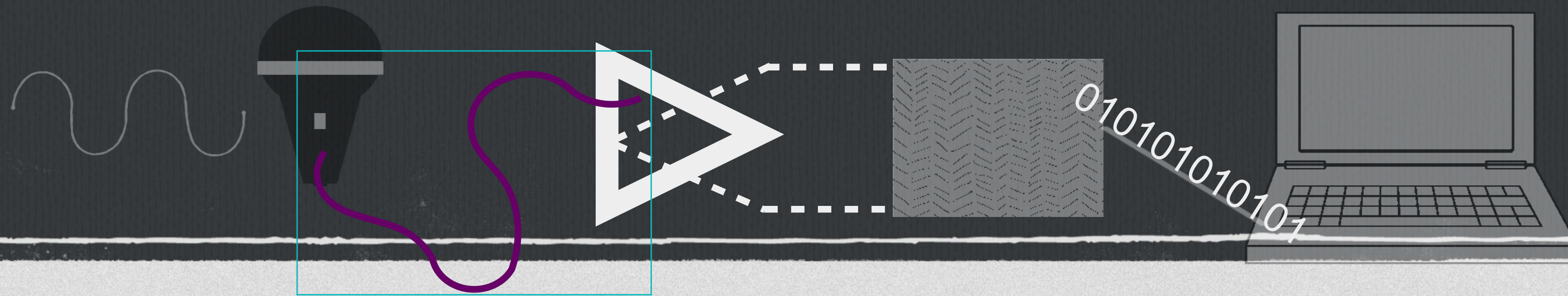
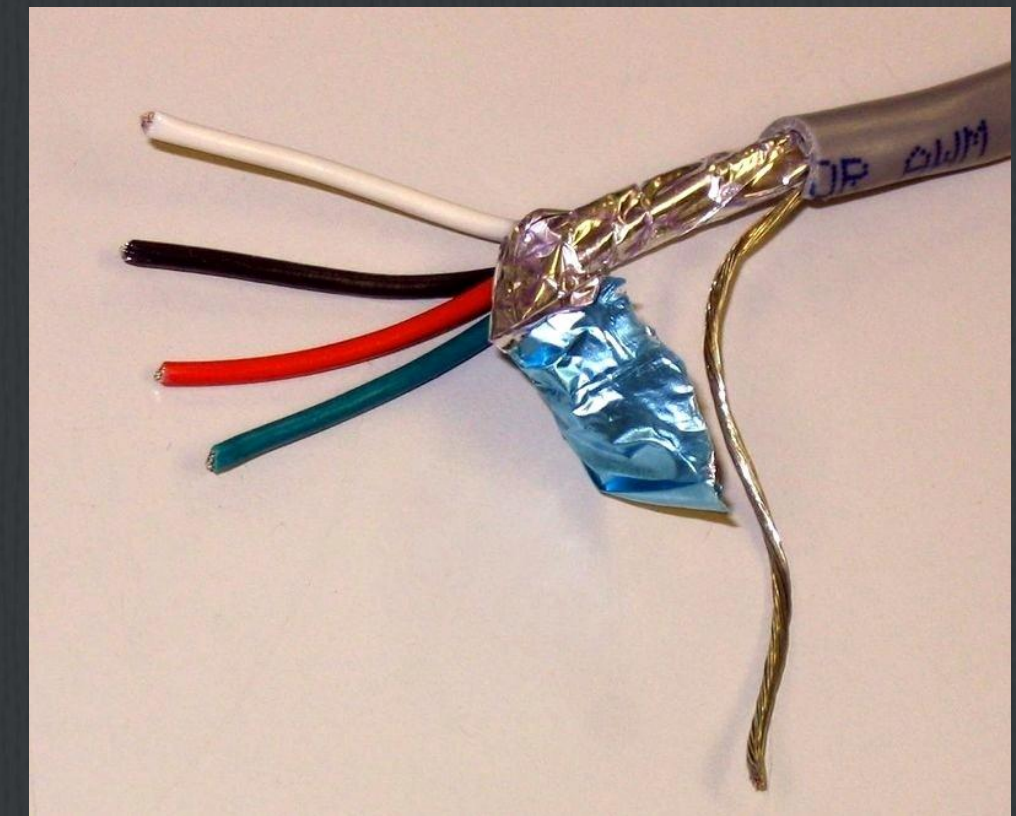
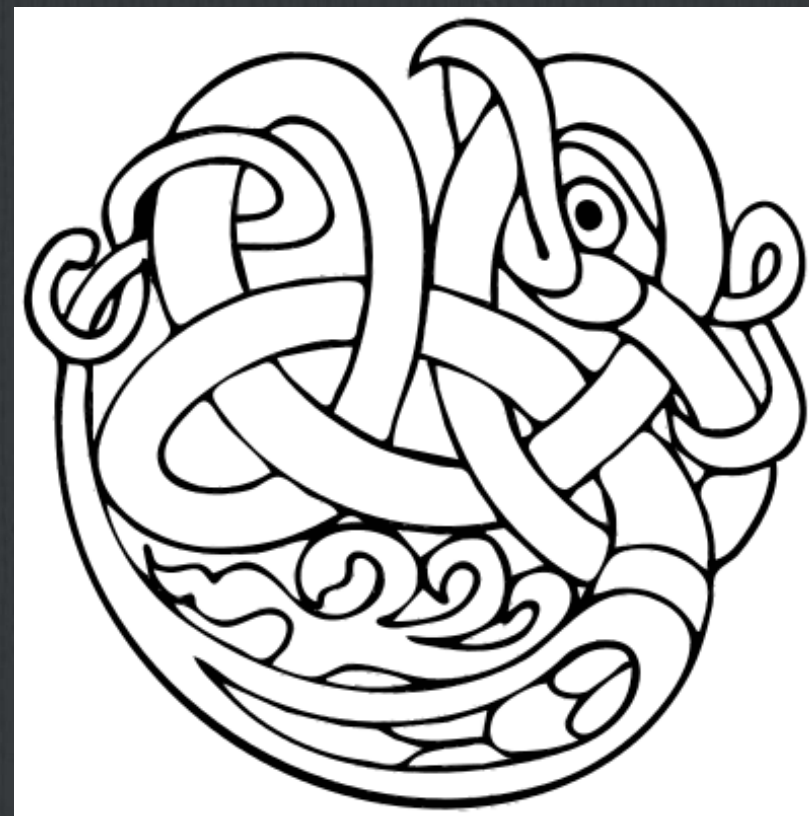


<http://www.bandwagonmedia.com/micPatterns.html>



Cables

\$30-90

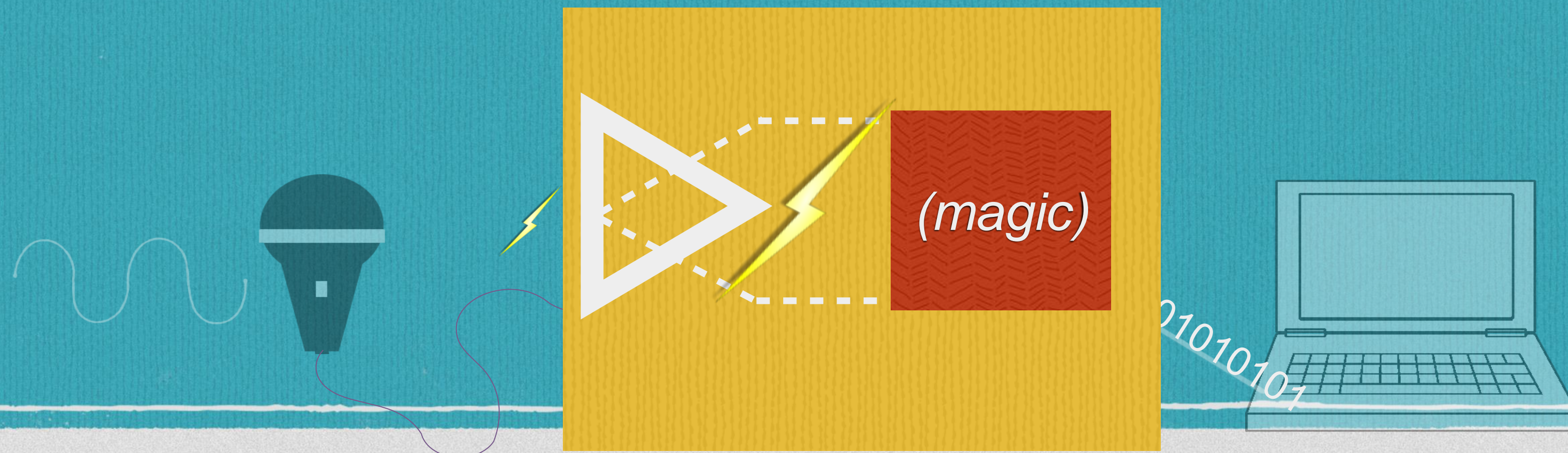


Magic Boxes

\$200-4,000

Analog to Digital Converter Units

- number of inputs
- types of outputs
- controls
- frosting

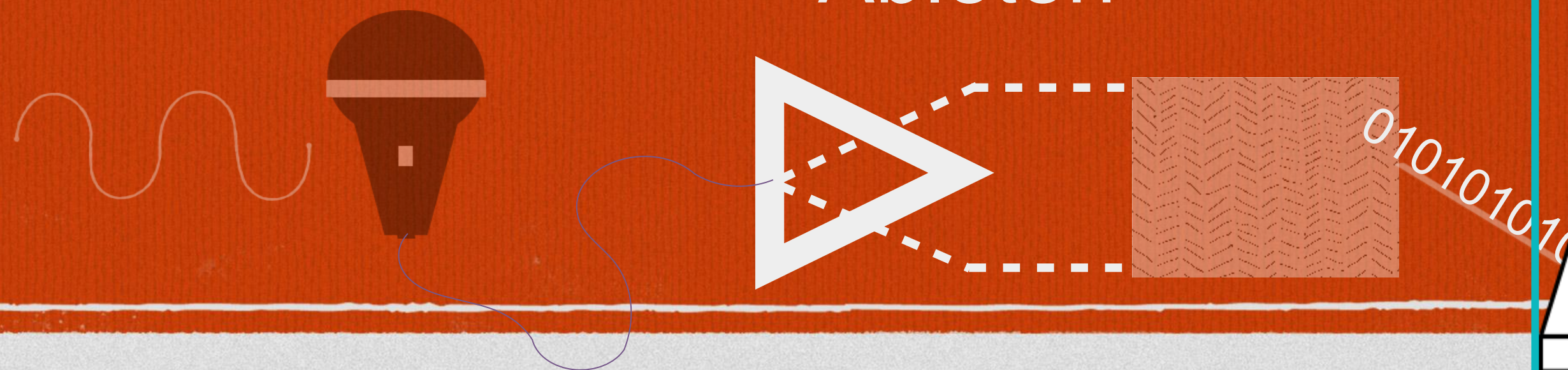


Computer

“free” - \$500



Ableton



Software Effects

Noise Gate

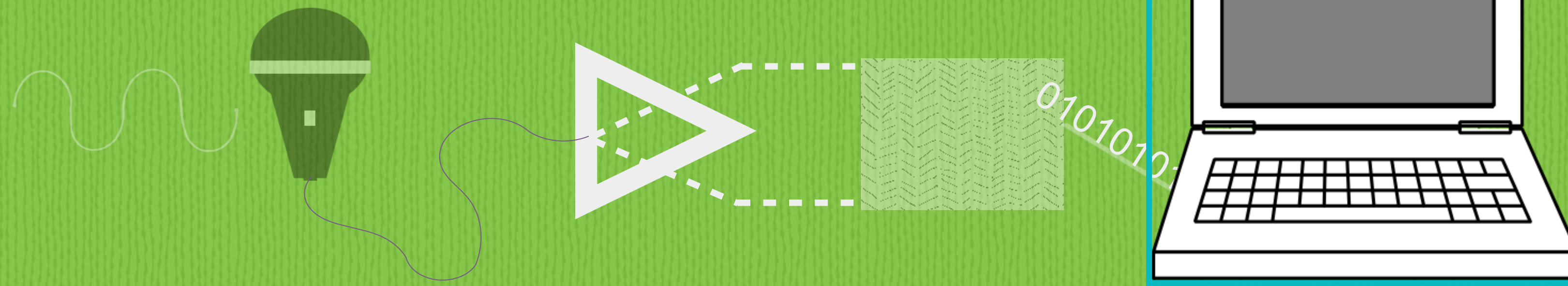
Compressor

De-esser

Can be found under either compressor or EQ

sibilance = 5-8 kHz

Normalizer



Q & A

