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 → (magic) → computer
Sound and Environment
Microphone

Dynamic
Cardioid or Super-cardioid

http://www.bandwagonmedia.com/micPatterns.html
Cables

$30-90
Magic Boxes

Analog to Digital Converter Units

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

“Ableton”

“Audacity®”

“Reason”

“Cakewalk”
Software Effects

Noise Gate
Compressor
De-esser
  Can be found under either compressor or EQ
  sibilance = 5-8 kHz
Normalizer