

- ▼ "Silence is not the absence of something, it is the presence of everything."
Gordon Hempton
 - ▼ Hearing is not listening.
 - Designing sound is listening.
- ▼ Le Corbusier: autism, Ludwig Mies van der Rohe: PTSD, and Walter Gropius: PTSD
 - To oversimplify, sufferers of PTSD, their brains frozen in fear, seek relief from trauma's confusions in simplicity, and simplification is the chief characteristic of modern versus traditional architecture – whose rejection was the purpose of the Bauhaus.
 - Our brains love detail. Brains also love to seek patterns.
- ▼ Planning the sound stage
 - ▼ What is the sound stage?
 - A soundstage is an imaginary three-dimensional space created by the high-fidelity reproduction of sound in a multi speaker system.
 - ▼ Elements to consider when building your sound stage
 - ▼ Gear
 - ▼ Sound source
 - ▼ Mac or PC Multimedia Outputs
 - ▼ Internal:
 - usually 1 X 2 channel stereo with 3.5 mm output
 - ▼ External:
 - ▼ A DAC (digital to analog converter)
 - USB, 2 channel stereo with 3.5 mm output
 - USB, 2 channel stereo input with 3.5 mm plug
 - ▼ Mixer
 - ▼ Analog or Digital?
 - Some are, pardon the pun, a mix...
 - ▼ Powered Mixer?
 - ▼ Powered mixers don't need external amplifiers
 - unpowered mixers need external amplifiers
 - Inputs: what type and how many?

- Outputs: what type and how many?
- ▼ Amplifiers
 - Inputs: what type and how many?
 - Outputs: what type and how many?
- ▼ Speakers
 - ▼ Active
 - Active speakers have on onboard amplifier.
 - need 230V
 - ▼ Passive
 - Passive speakers require an external amplifier
 - do not require power
- ▼ Cables, Adapters, and Dongles, oh my!
 - 1/4", XLR, Speakon, shielded, unshielded, 3.5mm, RCA, etc, etc, etc...
- ▼ Building a Multimedia Library
 - ▼ Multimedia:
 - ▼ Music
 - ▼ Music Sources
 - ▼ ASCAP
 - The American Society of Composers, Authors, and Publishers
 - ▼ Physical Media
 - CD's
 - Tapes and LP's (hahahahaahahaahaah!)
 - ▼ Digital Download
 - ▼ Digital Purchase
 - iTunes, Amazon, Google Play Music (YouTube Music), Bandcamp
 - ▼ Streaming
 - not really an option...
 - "One piece of junk is art, two is kitsch, three is crap."
 - ▼ Royalty Free Download

- Purchase includes license
- Melody Loops Pond5, and AudioJungle
- ▼ SFX
 - ▼ Physical Media
 - ▼ CD's
 - Sound Ideas 6000 Series
 - ▼ Tapes and LP's
 - hahahahahahaha!
 - ▼ Digital Download
 - ▼ \$ per effect
 - Sound Ideas, SoundSnap, AudioJungle
 - ▼ Subscription
 - Storyblocks!
 - ▼ Video
 - Storyblocks!
- ▼ Editing
 - ▼ You need a DAW and don't know it.
 - DAW (Digital Audio Workstation)
 - ▼ Mac OS
 - Garageband
 - Audacity
 - ▼ Windows
 - ▼ Tracktion 7
 - Now known as "Waveform Free"
 - Audacity
- ▼ Playback
 - ▼ Mac OS
 - ▼ Qlab
 - Only 2 output channels with the free version
 - Pro Audio allows up to 64 output channels, costs \$399

- ▼ Windows
 - ▼ SCS (Show.Cue.System)
 - Lite costs \$58, Standard \$100
 - ▼ MultiPlay
 - Free!
- ▼ iOS
 - Soundboard and Soundboard Studio Pro