

Diploma in Video

– Part 7



Lesson 7 Audio

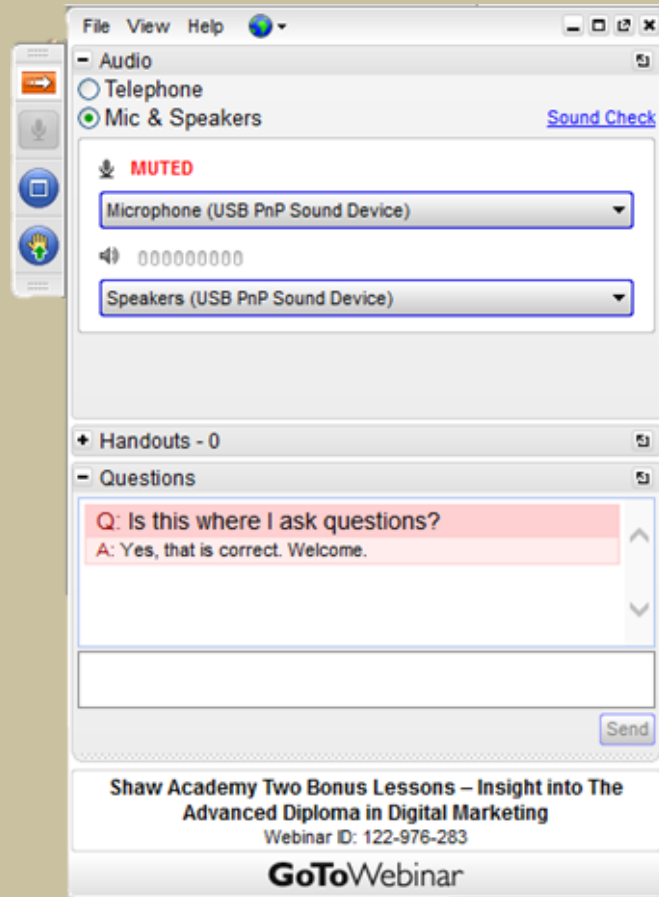
Presented by:

Adam O'Reilly Course Educator

F.E.T.A.C in Digital Media



Webinar Interaction



- Chat box – Type responses to the Educator
- We will have a Q&A at the end of the lesson where you can ask questions



Lesson 7

- The importance of sound
- Pick up patterns
- Types of Mics
- Music and effects
- Q & A

AGENDA







Why learn about these things?

- Knowledge to record high quality audio
- Audio heavily dictates the quality of a film



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Enhance your learning experience!

'Sound is half the picture'

The importance of Sound

- Cannot really be fixed if wrong
- Bad audio its harder to get consistency
- Audio can be difficult to get right
- Good audio increases the overall quality of the film.

5 basic rules

1. Get the mic close as possible
2. Always use Headphones!
3. Monitor sound from the camera
4. Scout locations for sound - find potential problem areas
5. Room Tone – record the natural sound

Get the mic close as possible!



Always use Headphones!



Monitor sound from the camera



Scout locations for problems



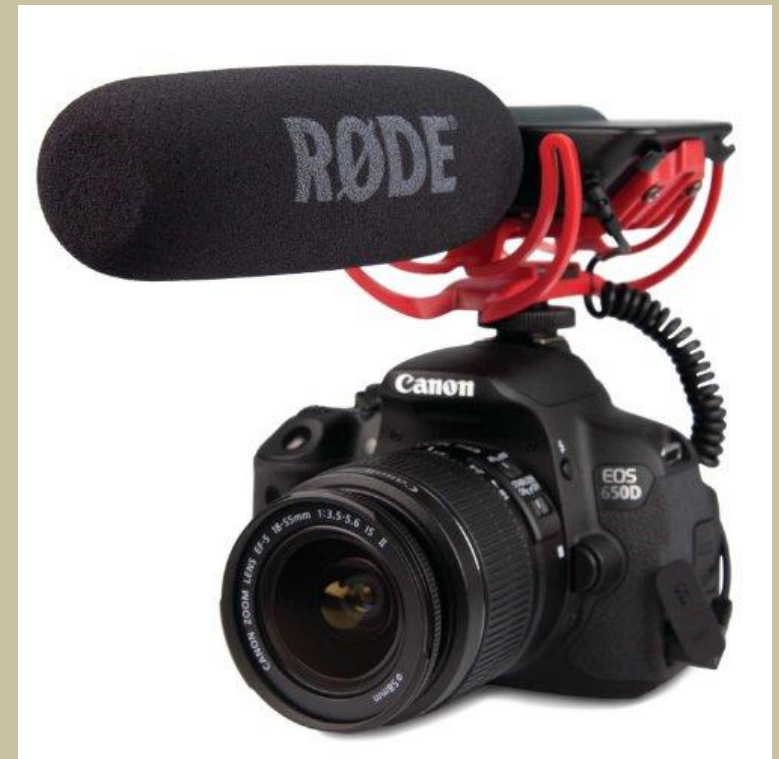
Room Tone



Recording audio



Recording audio



Audio cables

- 3.5 mm jack
- Unbalanced



Audio cables - XLR cables

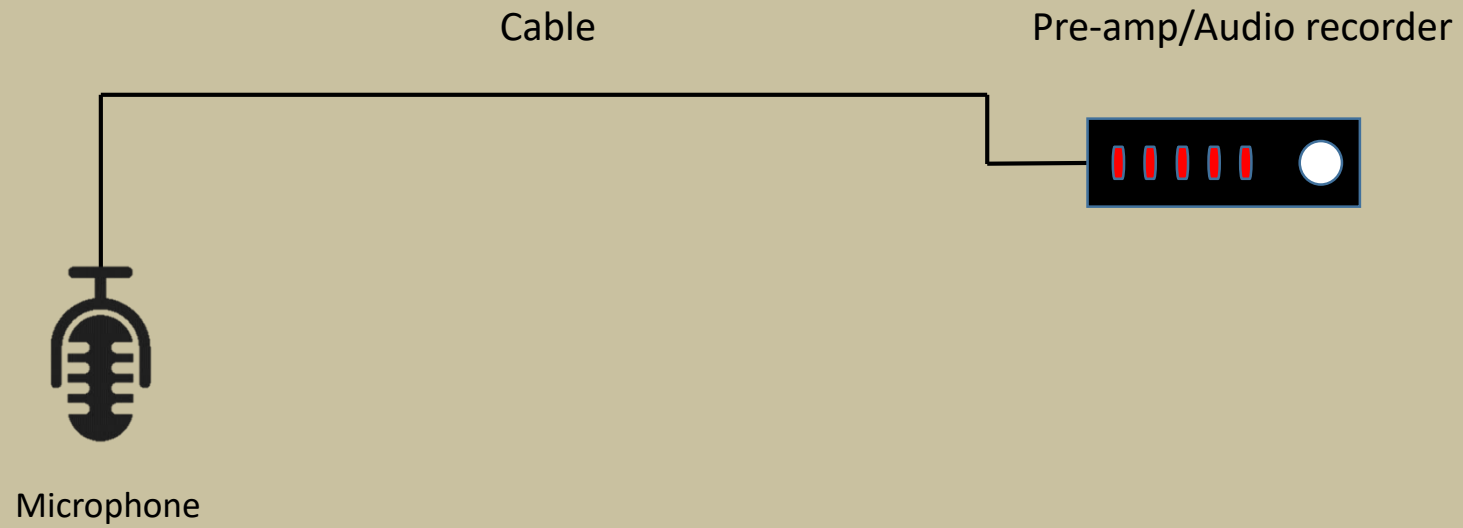
- Professional Standard
- Adapters for Dslrs available
- Balanced – less interference



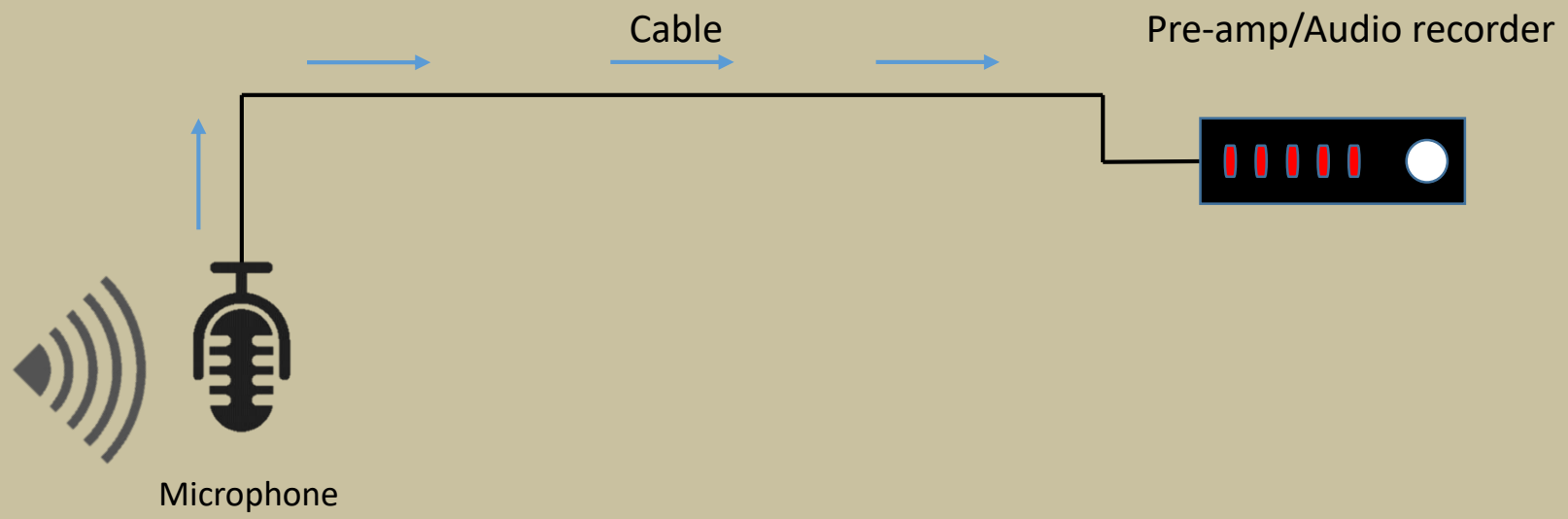
Pre-Amp



Audio Signal Chain



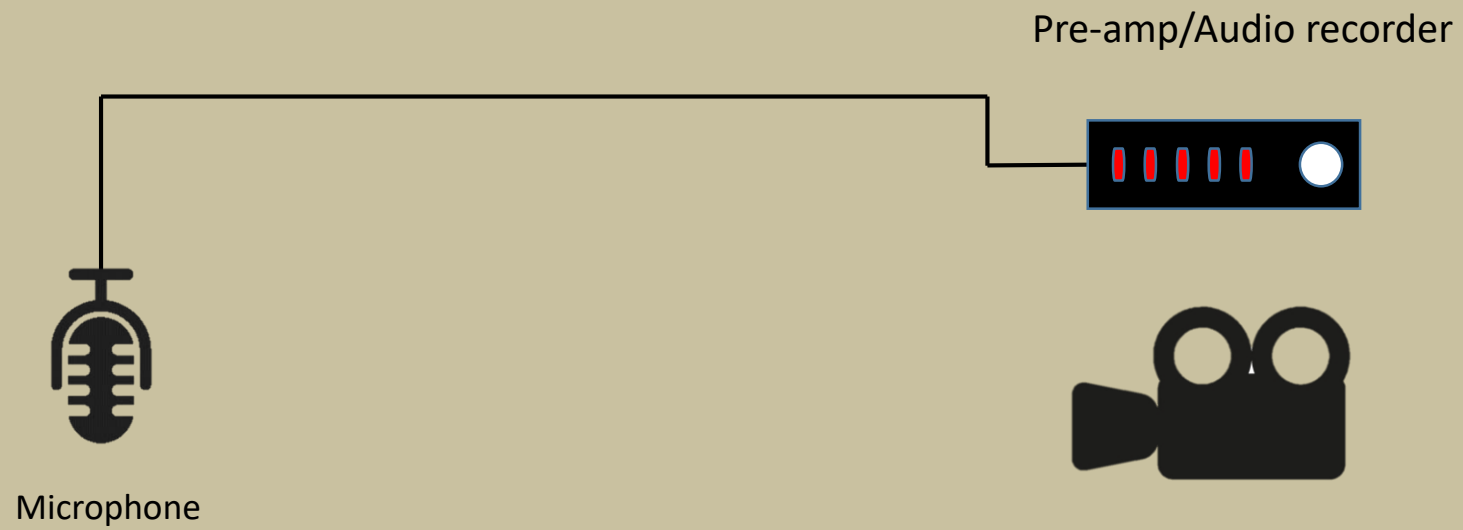
Audio Signal Chain



Single System



Double System

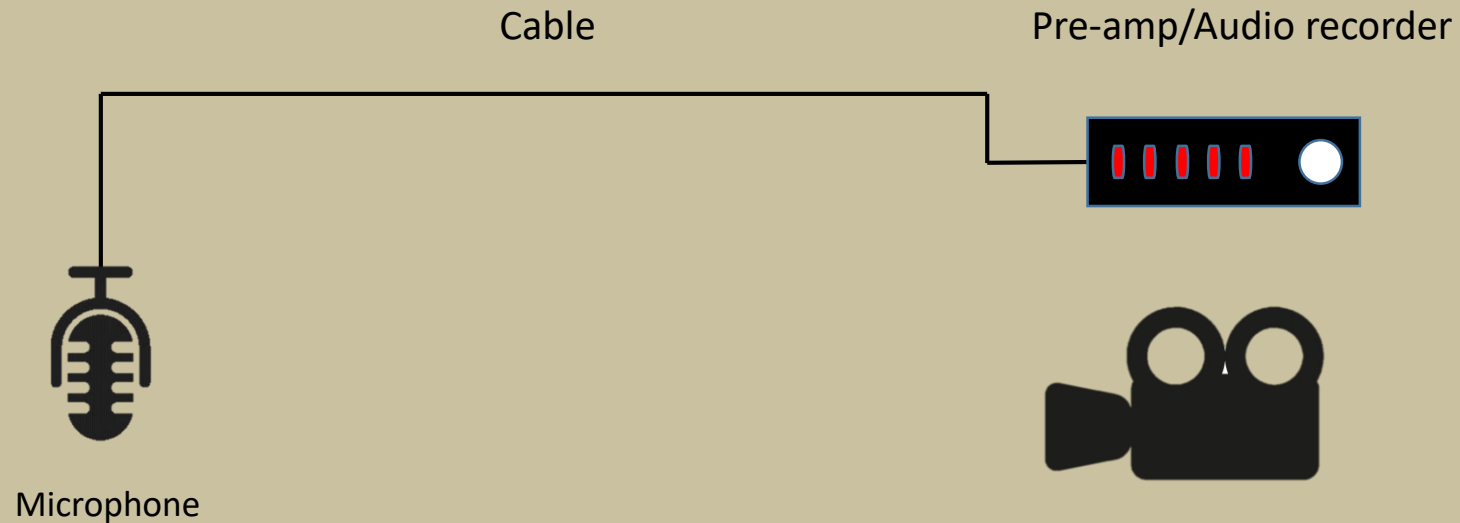


Single System Setup



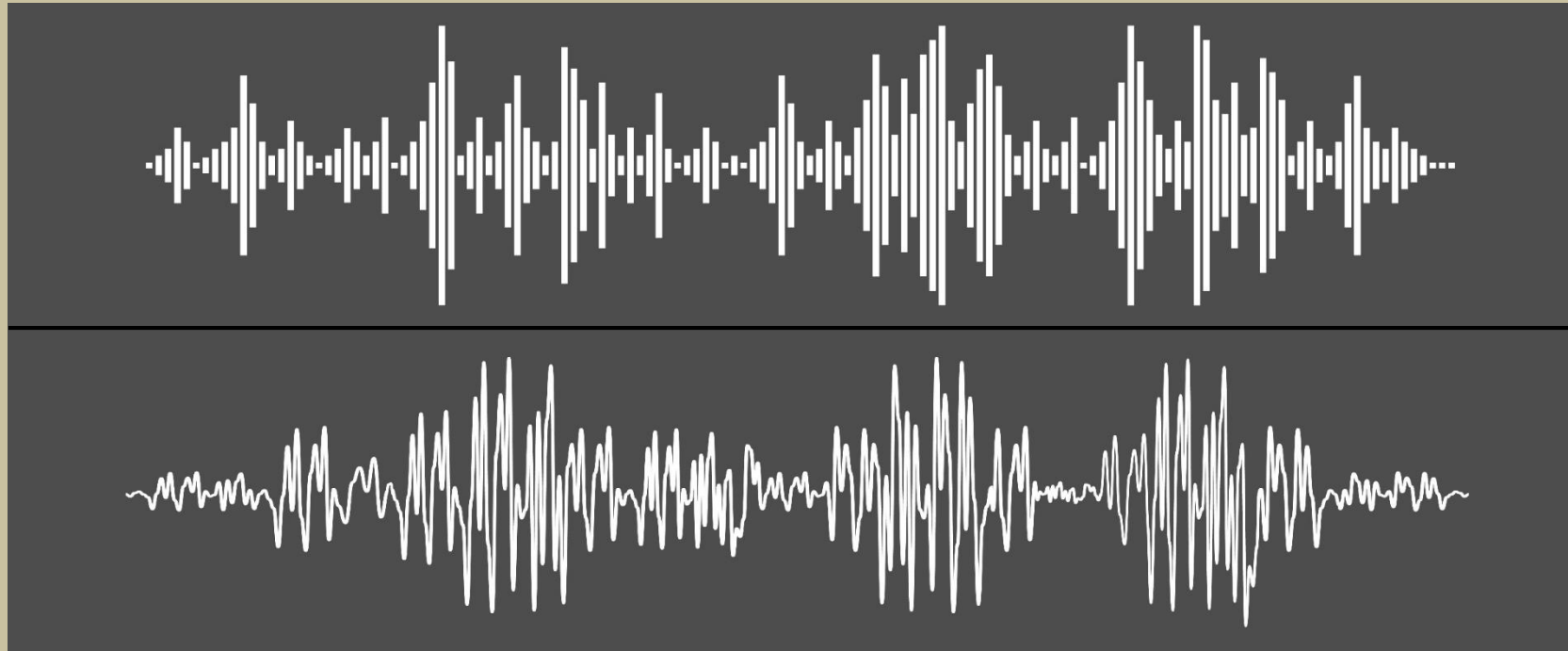
- Audio recorded straight in camera
- Don't have to sync Audio + Footage
- Saves time
- Built in Mic inputs + Pre-amp

Double System Setup

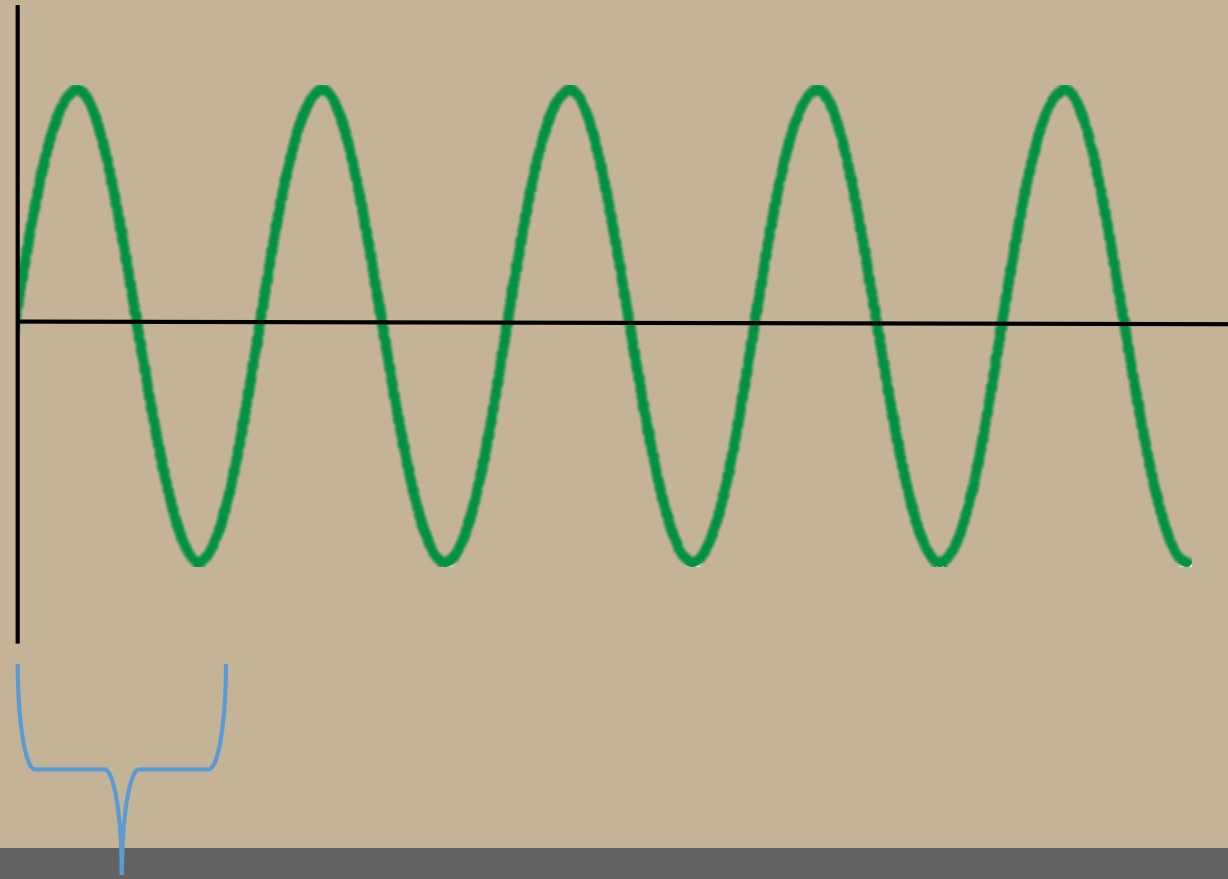


- Better audio quality
- The amp has higher sample rates
- If you don't have Mic inputs
- Audio is not connected to the camera (more movement)

Sound Wave – Sampling Rate

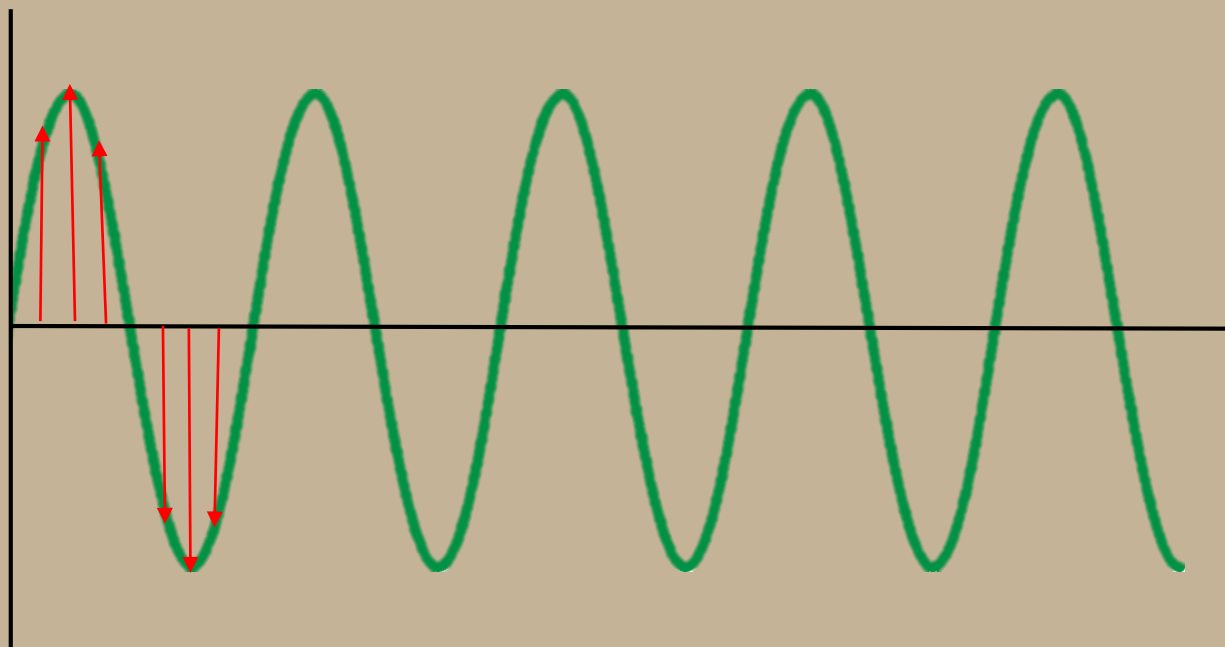


Sound wave



1 Second

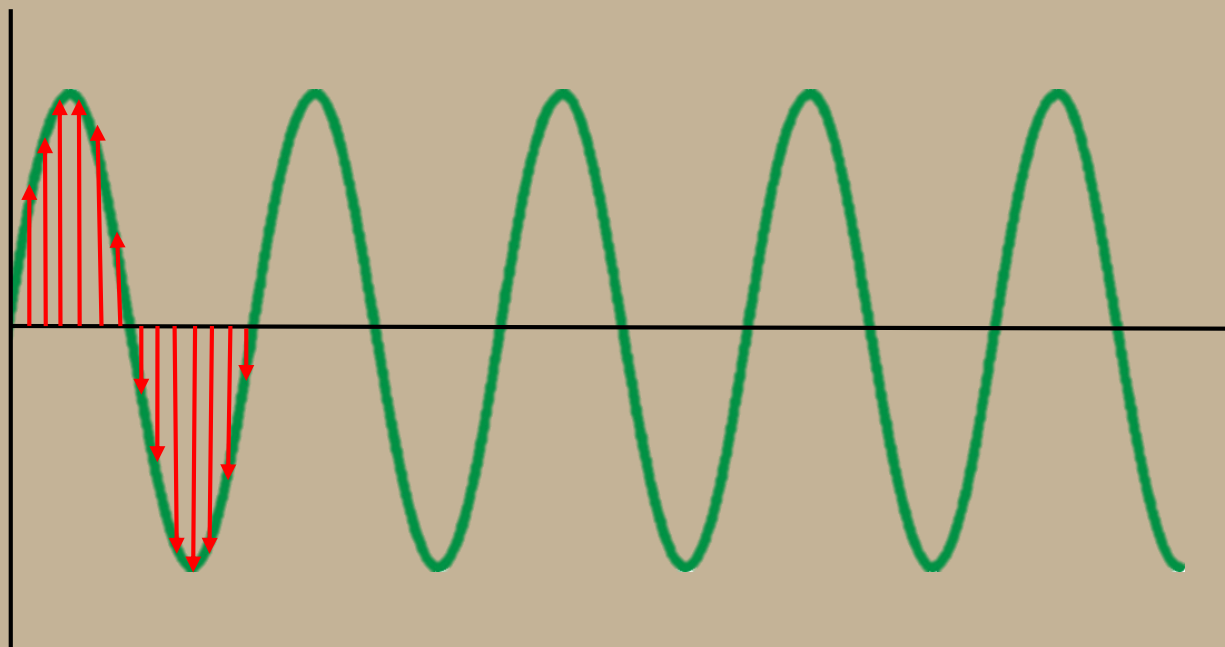
Sound Wave – Sampling Rate



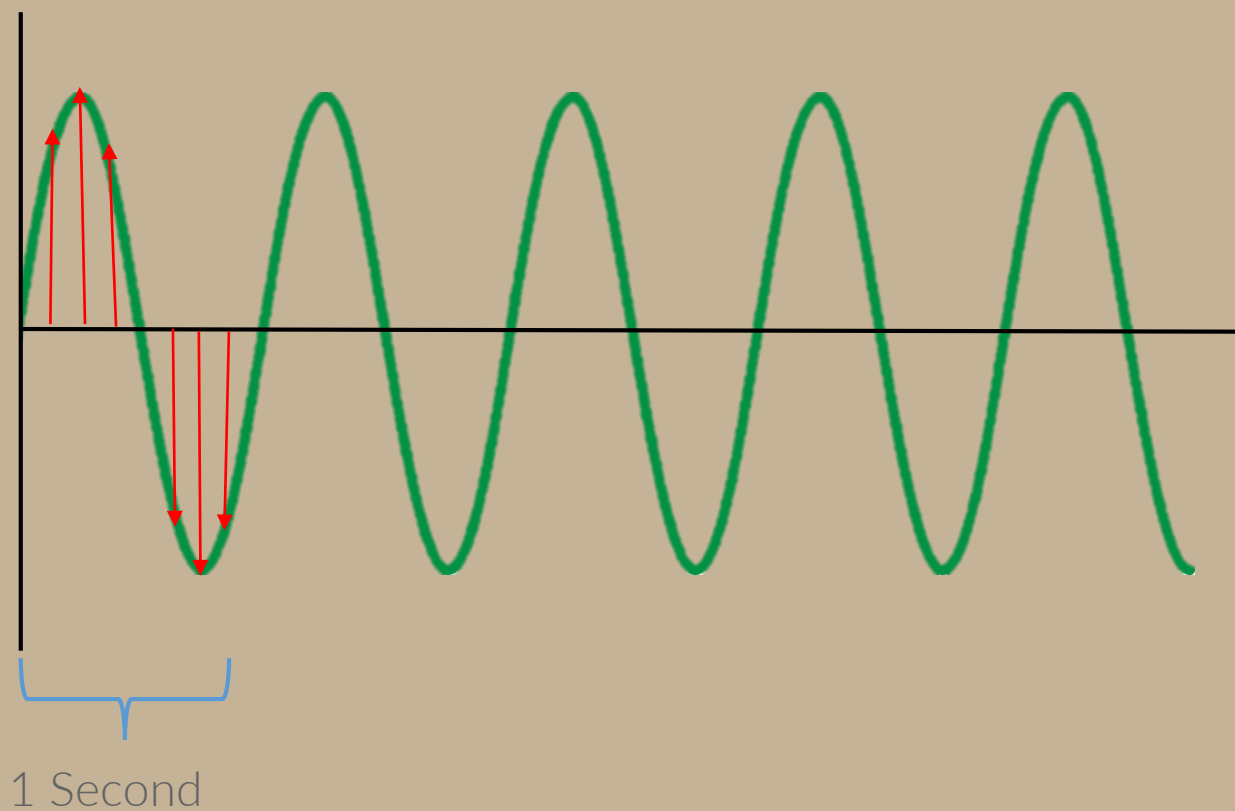
Audio sampling Rate

- Measured as (kHz)
- 11 kHz – Low quality
- 44.1 kHz – CD quality
- 48 kHz – Digital video audio – standard

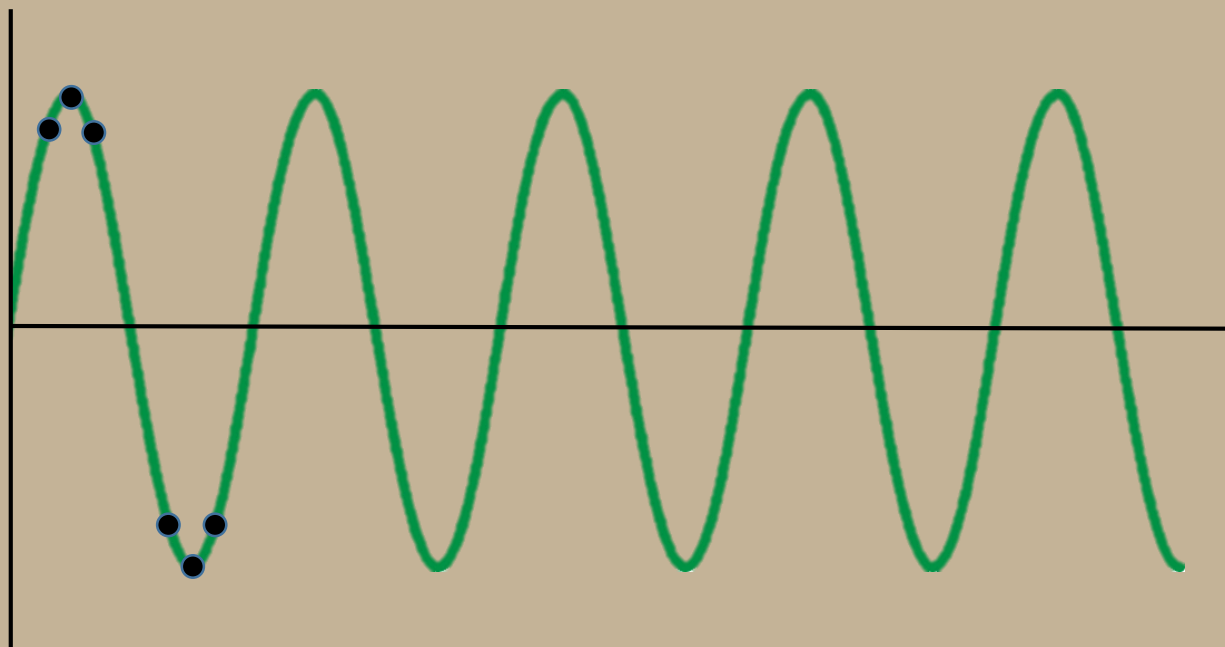
Sound Wave – Sampling Rate



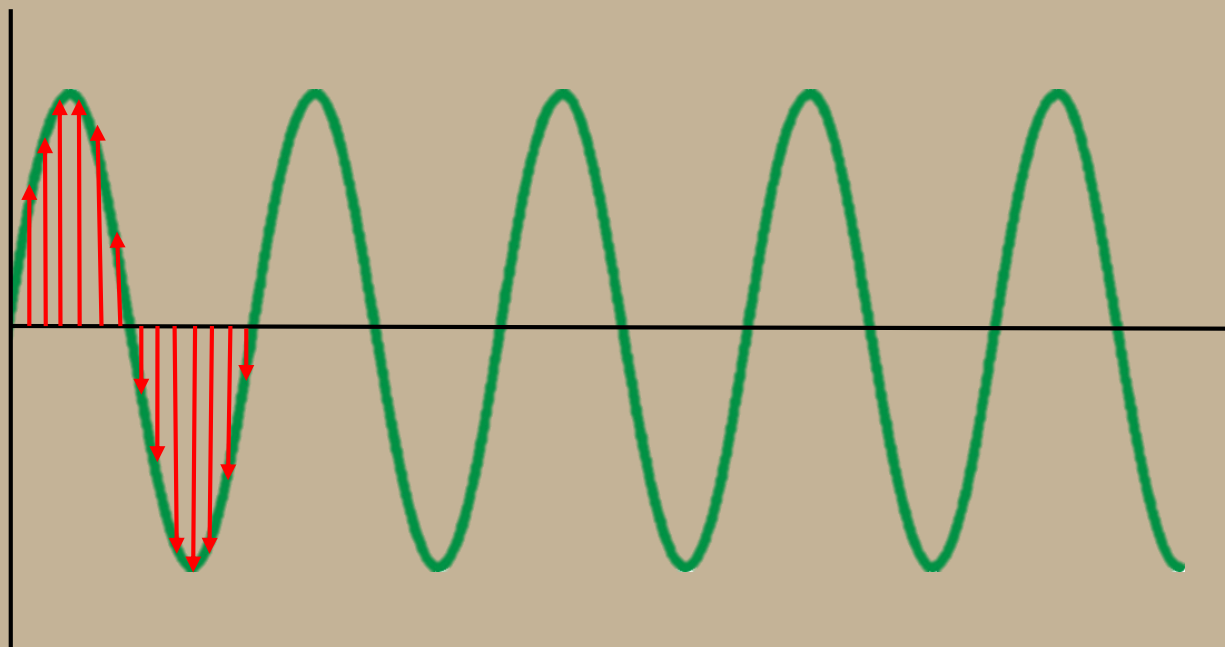
Sound Wave – Sampling Rate



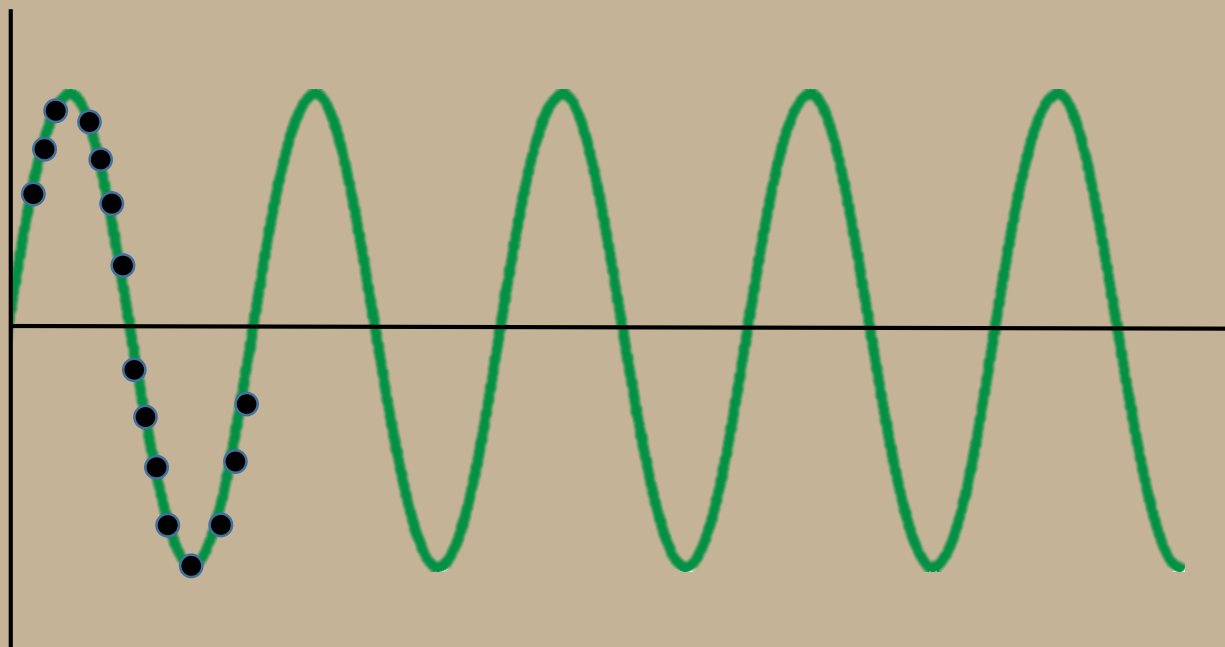
Sound Wave – Sampling Rate



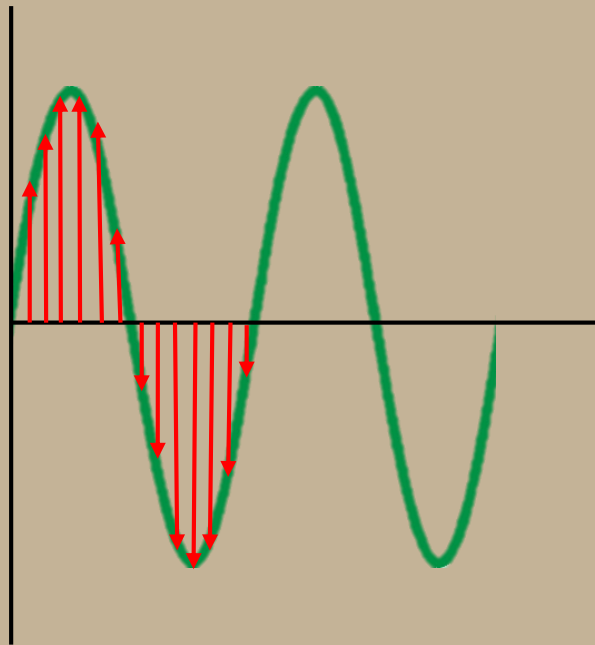
Sound Wave – Sampling Rate



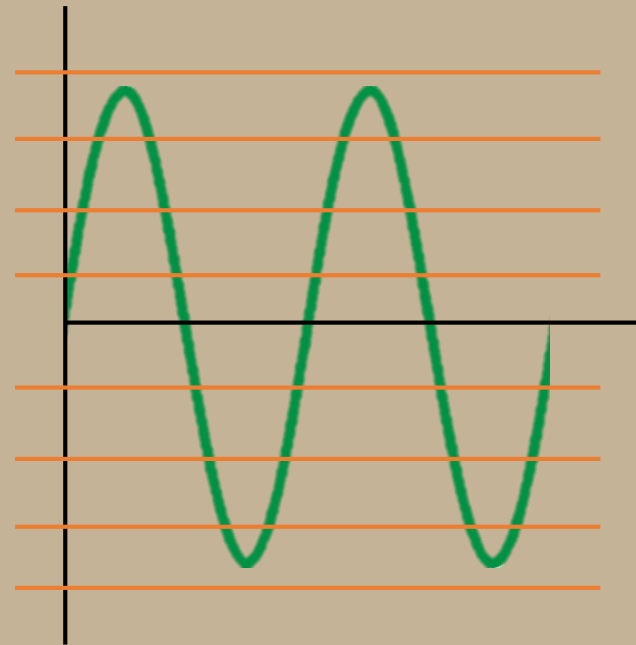
Sound Wave – Sampling Rate



Bit Depth



Sampling rate (kHz)



Bit Depth (bit)

Microphones

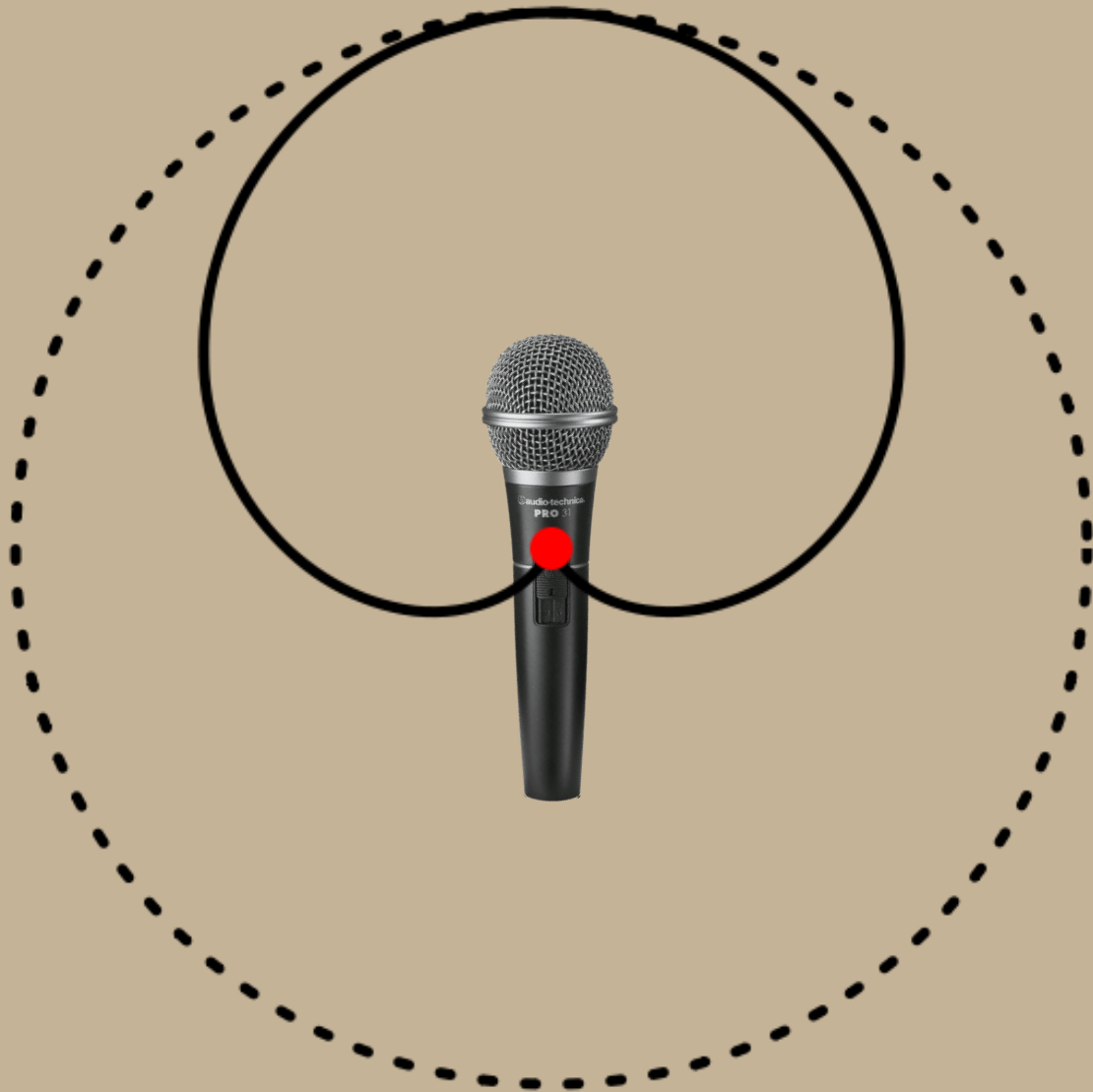
Pick up patterns



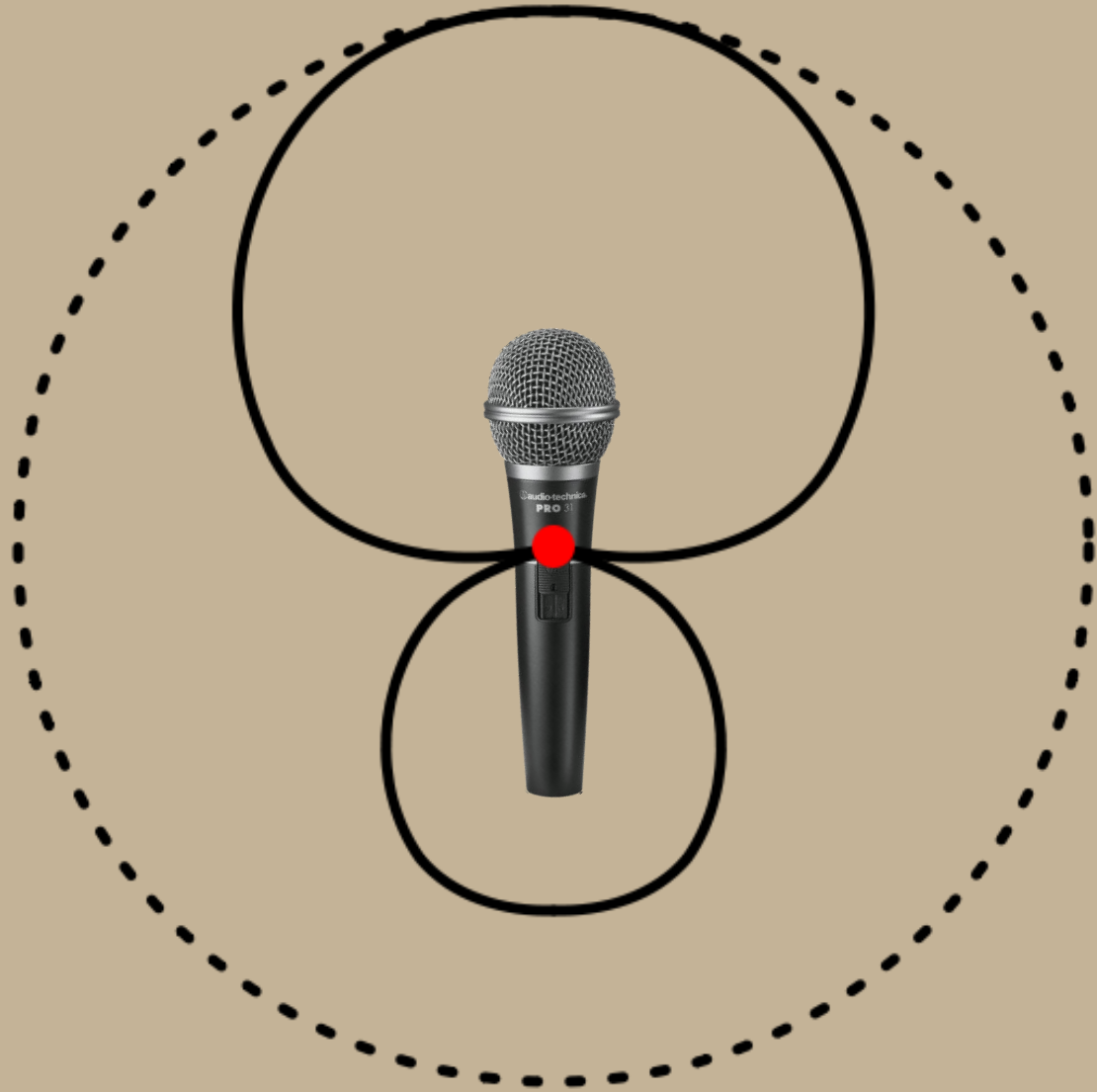
Omni



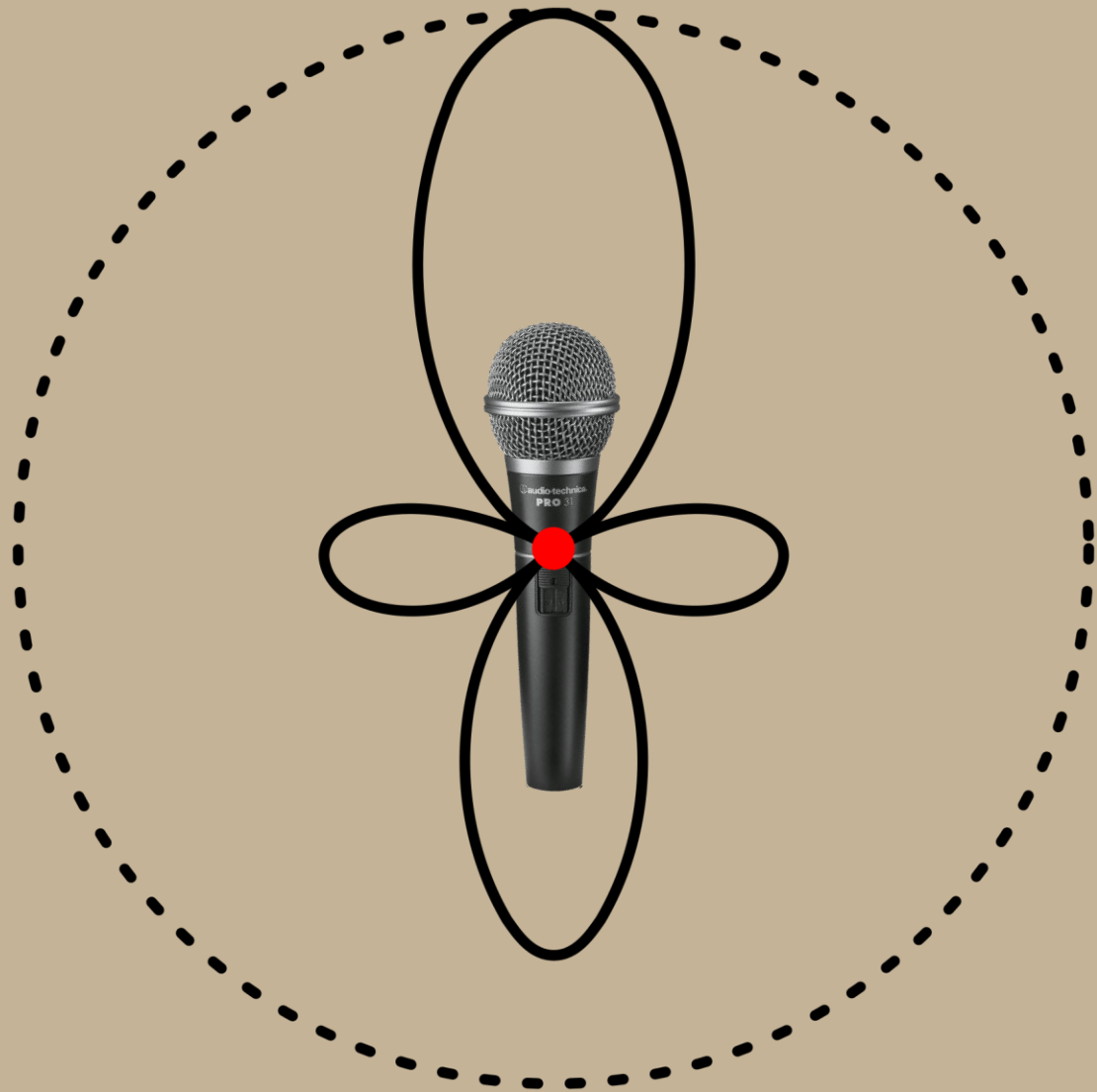
Cardioid mics



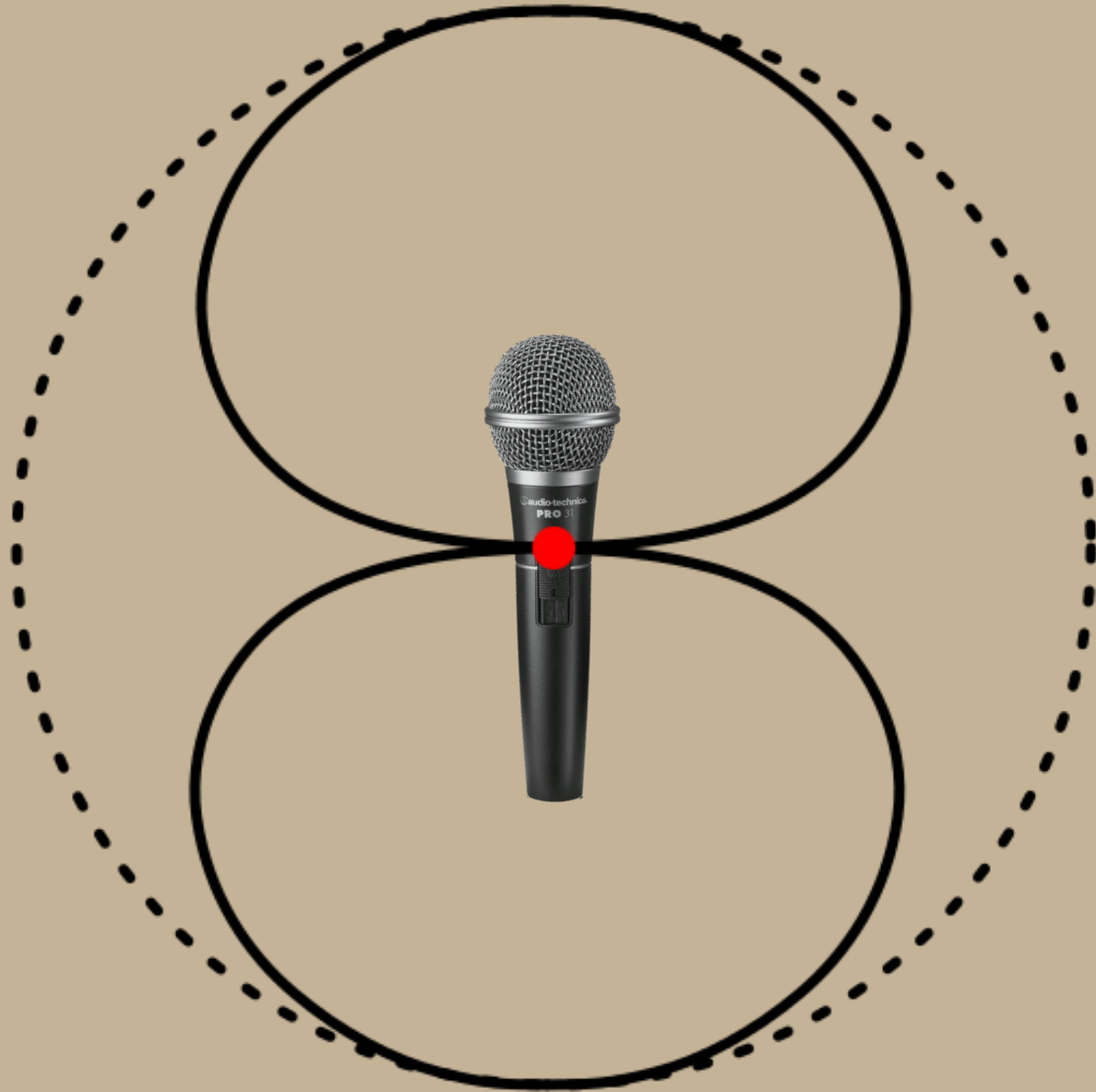
Hyper/Super Cardioid



Shotgun



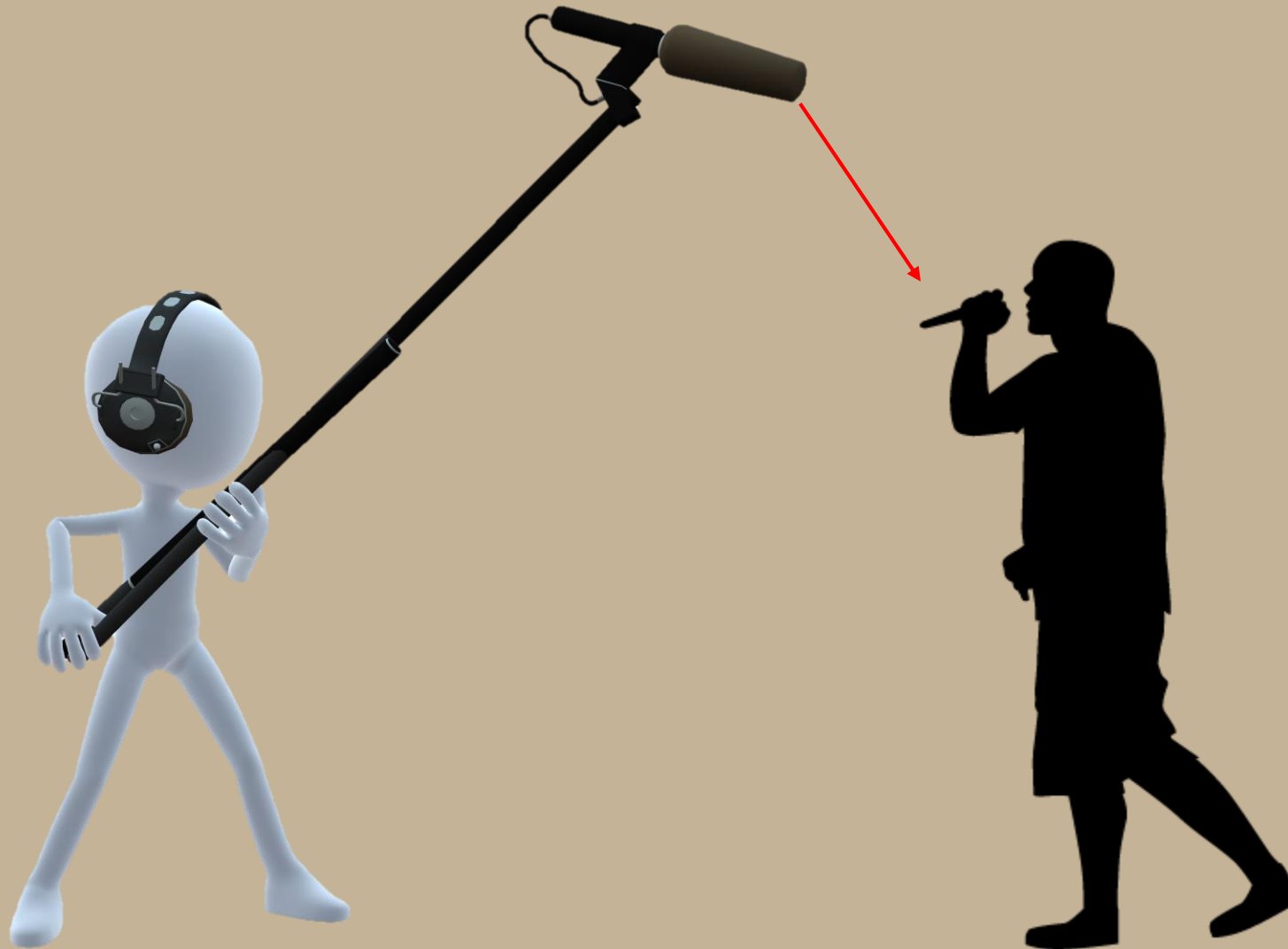
Bidirectional



Different mic types

- Booms
- Handheld
- Lavalier or lapel mics
- Wireless

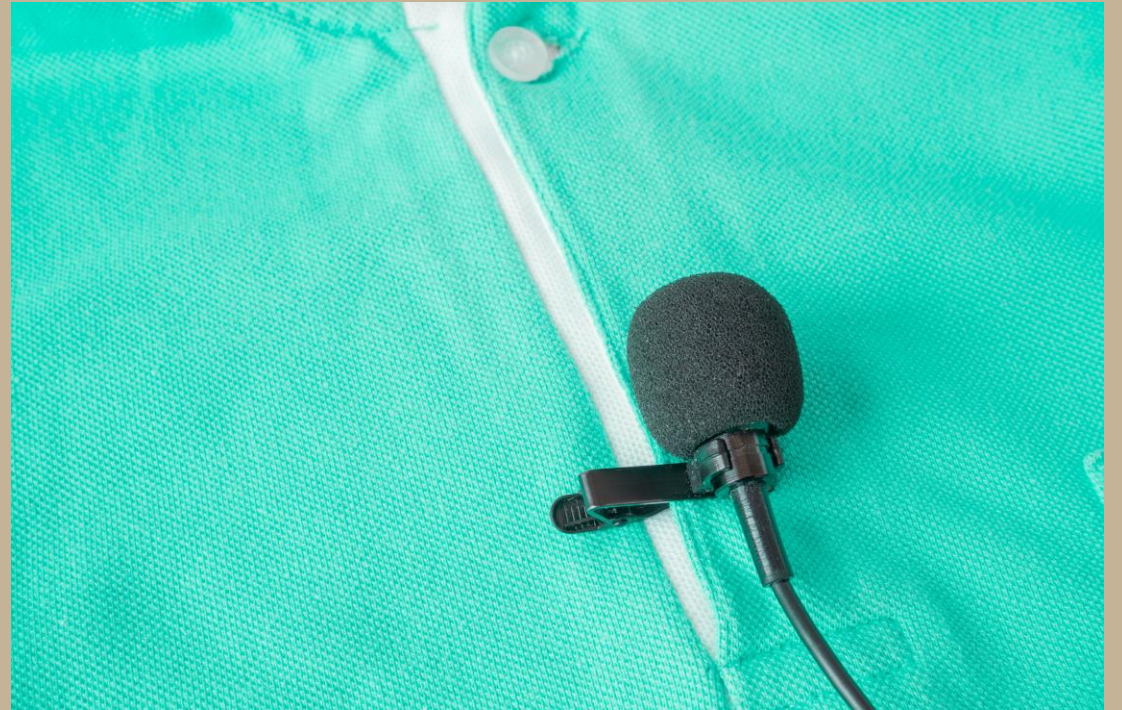
Boom Mics



Handheld mics



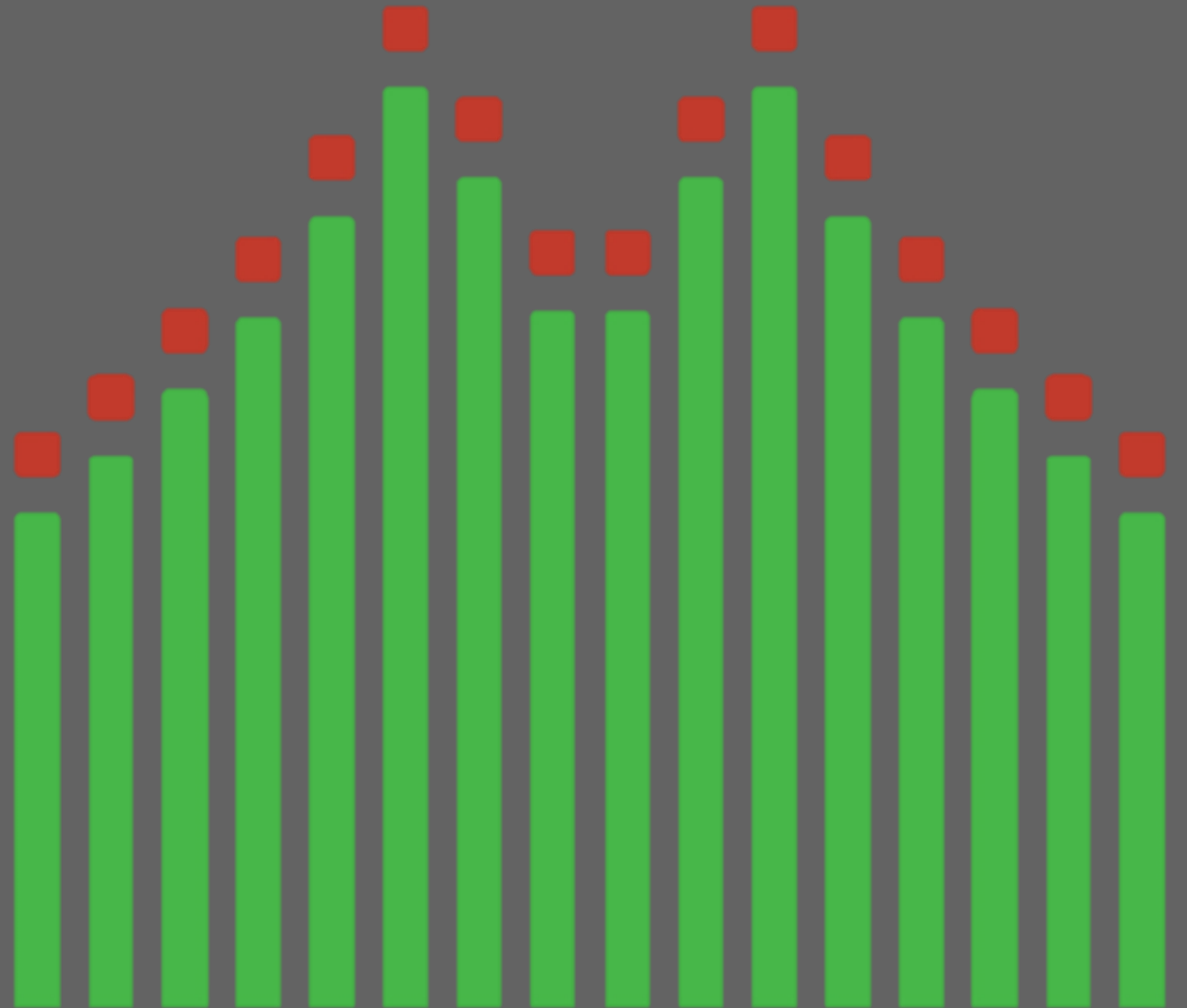
Lavalier Mics/Pin mics



Wireless Mics



Levels

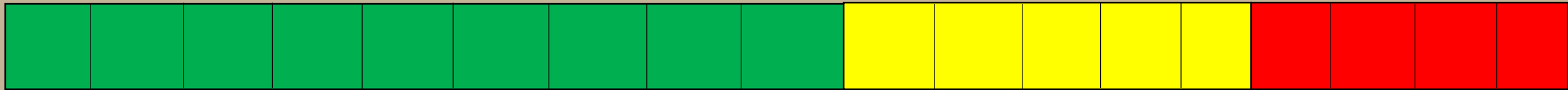


Levels

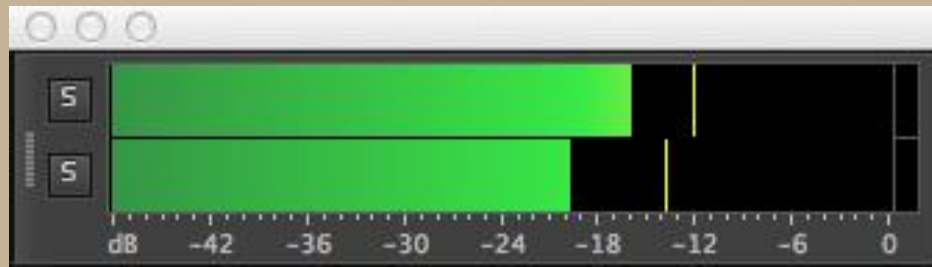
- Red zones
- Too loud – distortion
- Too low – hiss
- -20 Db to -12 Db

Levels

Acceptable Levels (-12Db – 20DB)



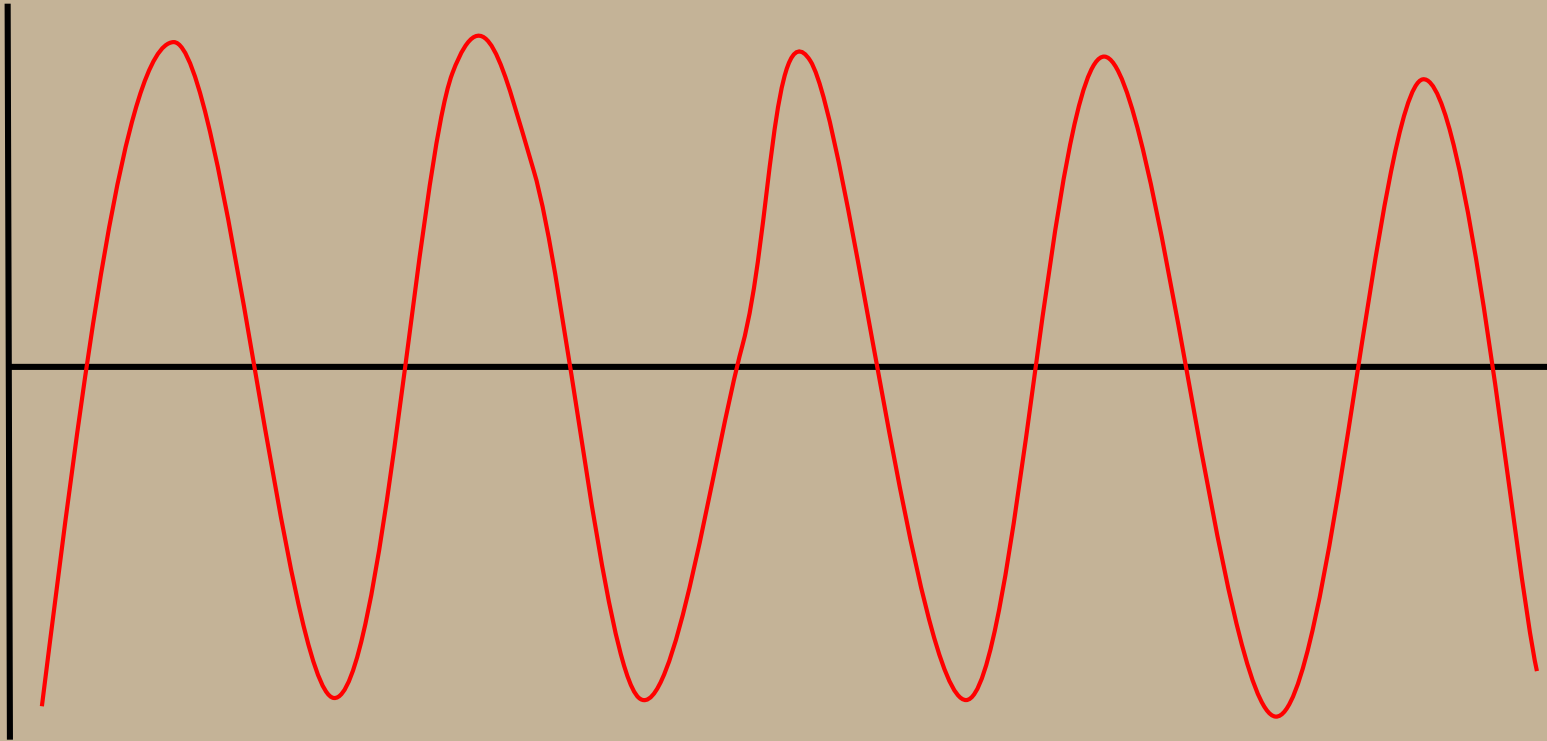
Too Low
Hissing sound



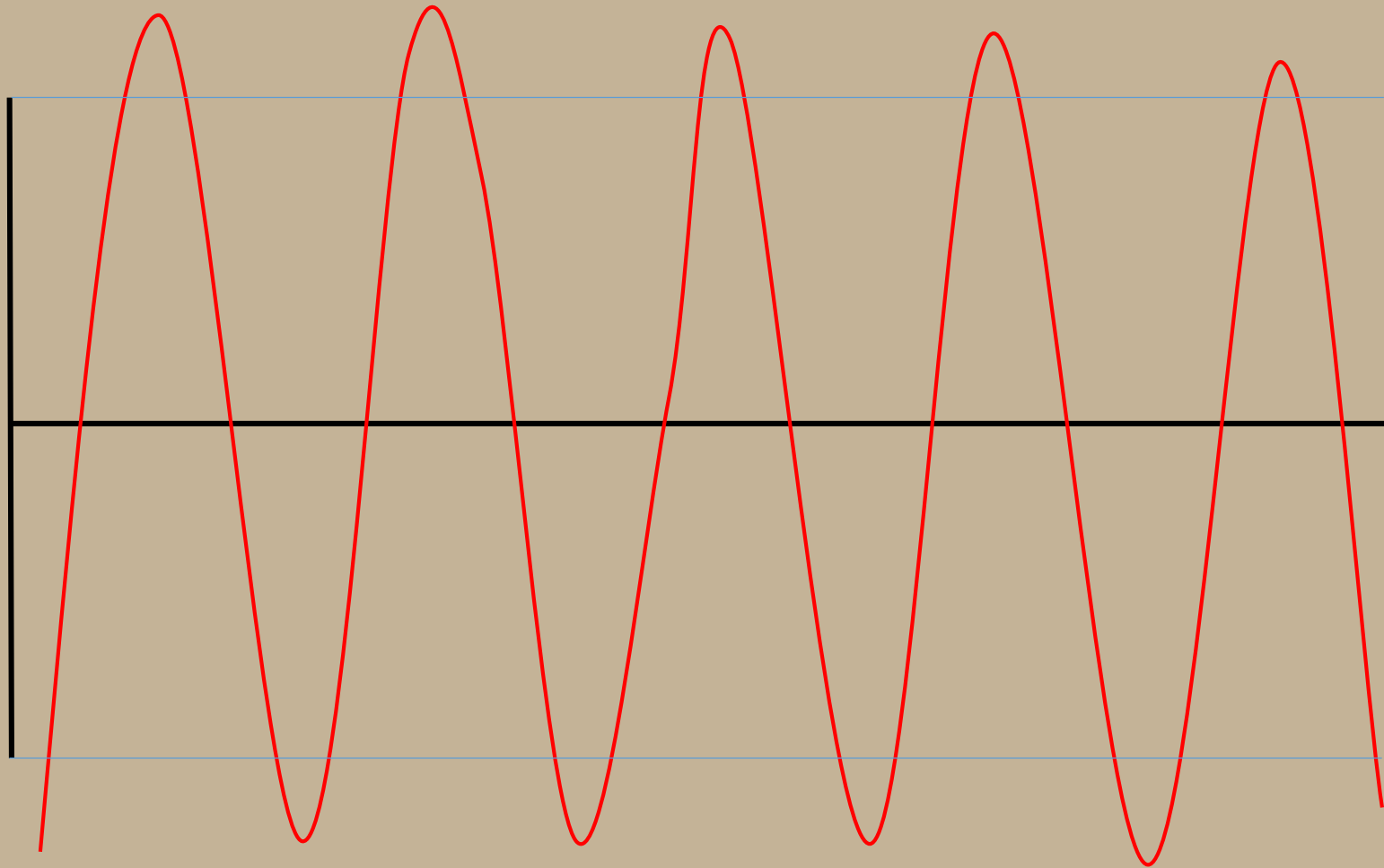
Headroom

Too Loud
Distorted Sound
(clipping)

Clipping explained



Clipping explained



Music

- Important that the music suites the footage
- Music can dictate the pace of the edit
- Good Quality
- Royalties





Sound effects



Sound effects

- Ambience
- Library
- Foley



Ambience

- Psychological Cue for the space



Ambience

- Mostly recorded on location
- Tip: Record 1 full minute off ambience





Library Effects

- Buy commercially
- Some sites will have free effects
- Sound effects we cannot record ourselves

Foley

- Sound recorded for specific visuals



Jack Foley



Equipment Considerations



Rode VideoMic GO Lightweight On-Camera Microphone



The Zoom H1

Considerations

- Don't underestimate the importance of sound
- Use Headphones!
- Ambient sound can be a lifesaver
- Music has a big impact on mood and atmosphere



Summary

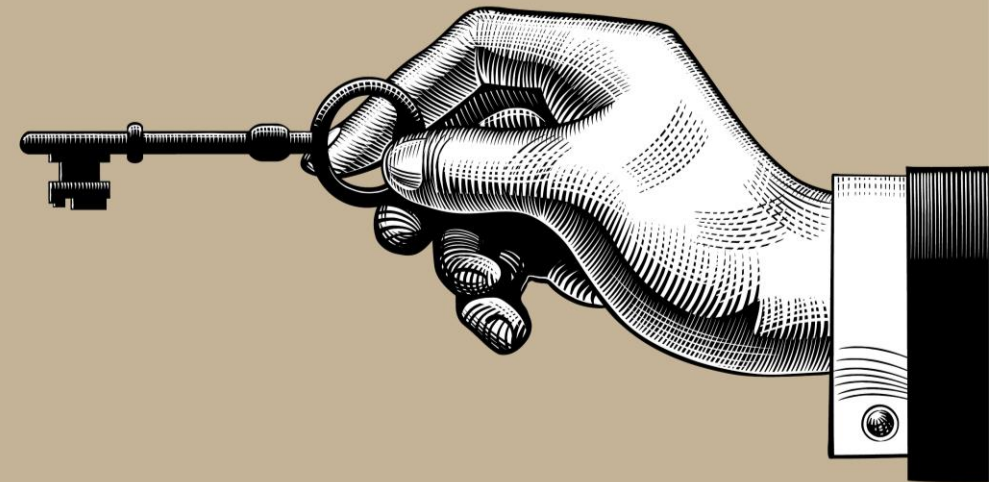
- The importance of sound
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Next Lesson

➤ **Basic of Cinematography**

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Ross Silke

Amazing courses! Great people! Love the learning environment! Highly recommended and affordable! Anyone can learn at their own pace. I now have 23 different diplomas from Shaw and counting, lol.



Mandy Bonner

I've done the Foundation in Photography, the Advanced Photography and am now in the middle of the Photoshop course. I have loved each one and have advanced hugely in my photographic abilities.



Anastatia Faro

I am so glad I've made the decision to enroll in the foundation & advanced photography, graphic design, Photoshop and Lightroom course. I have learned so much in just a couple of lessons.

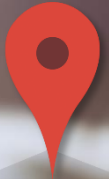



Simon Fletcher

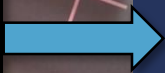
I loved the foundation photography course so much I signed up for the ultimate photography program. As a result my photography skills have much improved so I am now taking photos instead of snaps.

Your Journey Starts Now

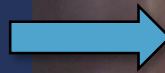
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Diploma in Video






UPP
Part 2



Ps
Photoshop



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Graphic Design




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Photography

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Achieve Stunning Macro



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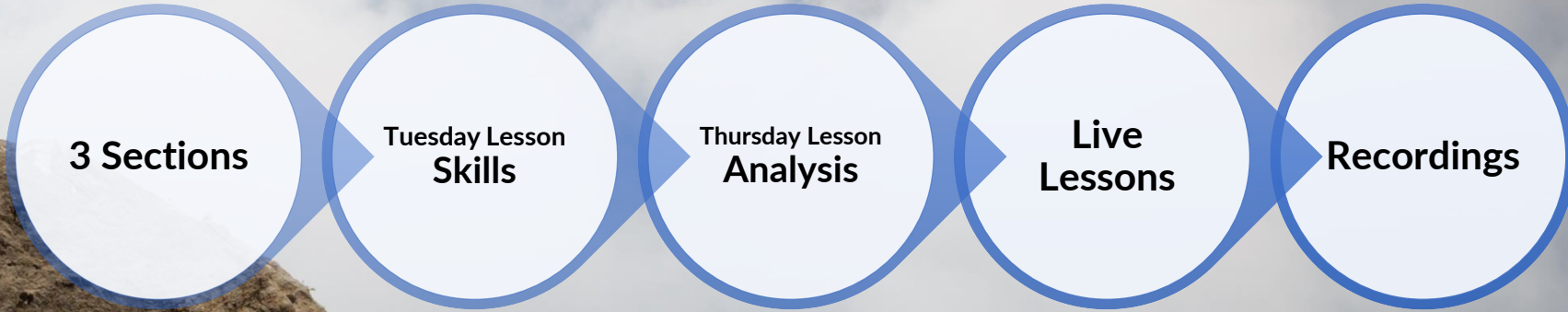


Produce Incredible Nighttime Photos

In Just 12 Short Weeks -You will be the Photographer you have always wanted to be!!!

Starts in 2 Weeks
Filling up Fast

Ultimate Photography Programme

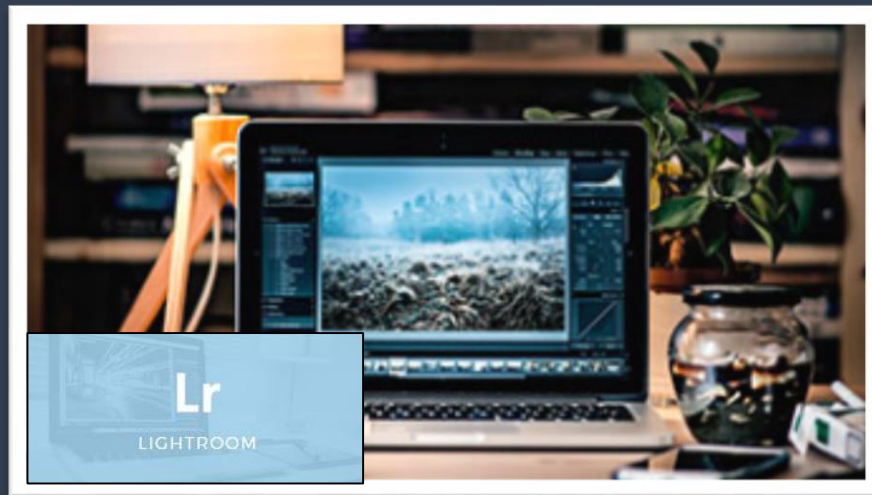


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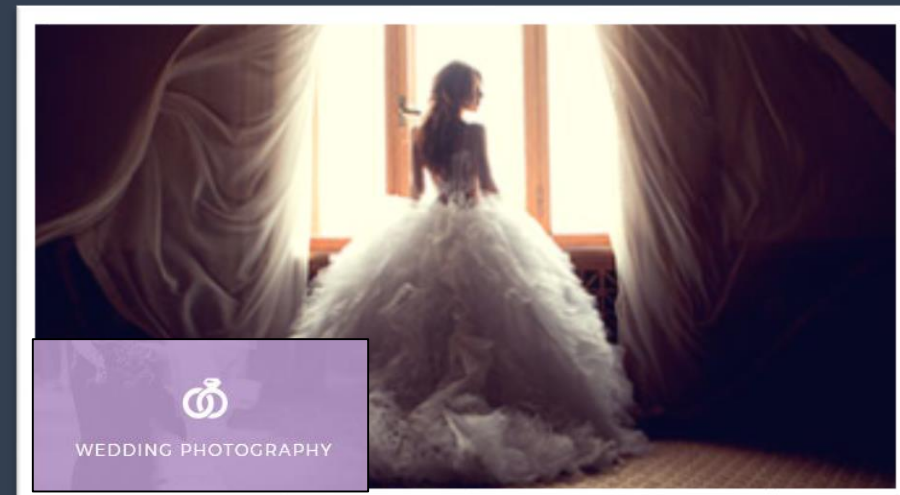
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QUESTION TIME

See you back for Lesson 6
Shooting Video Manually



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