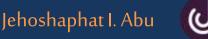
Sound As A Tool For Making Your VR Experience More Immersive





Sound As A Tool For Creating Immersion In VR

01 | About Me

02 | What Is Sound?

03 | How Is Sound Useful In VR

04 | How Do We Use Sound In VR?

05 | General Guidance For Using Sound In VR

06 | Audio Effects, Audio Mixer & Audio Format In Unity





About Me



About Me

I'm Jehoshaphat I. Abu a polymath and an advocate of STEAM education.

I'm studied Computer Science (also Music) with Specialization in Artificial Intelligence and Machine Learning.

I'm also a multi-disciplinary artist, designing sounds and composing music for Film, Games & TV, interactive installation and performances.



http://www.jehoshaphatia.com

Sound Designer | Developer | Digital Artist | Researcher in AI, Machine Learning, Computer Music.



Most Powerful thing in all Form of media











What Is Sound?



Vibrations that travel through the air or another medium and can be heard when they reach a person's or animal's ear.



Elements Of Sound Perception

- Pitch Low Or High
 Duration Long Or Short
 Loudness Loud Or Soft
- Timbre Distinct Sound. Qlty
- Noise Unwanted Sound
- Spatial Location

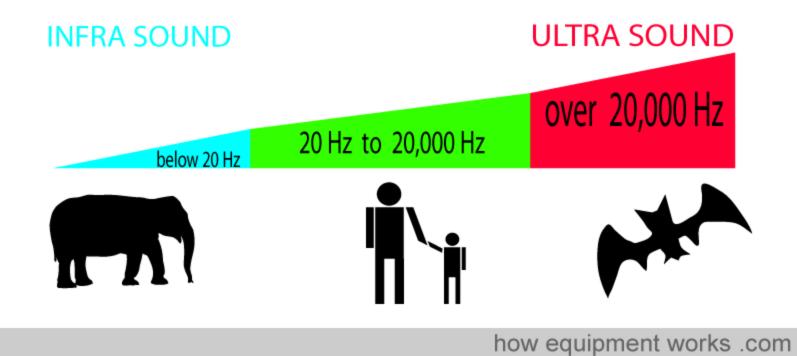




Is the frequency of a sound as perceived by human ear



Pitch – Low Or High



https://www.bing.com/images/search?view=detailV2&ccid=wYHOAdlH&id=CF86509D7CDE9D F28ACC2A4870BEA44451141DF3&thid=OIP.wYHOAdlHqMn4gvSl0eNomwEsCl&q=sound+spect rum&simid=608052098345076933&selectedIndex=52&ajaxhist=0



Timbre – Quality





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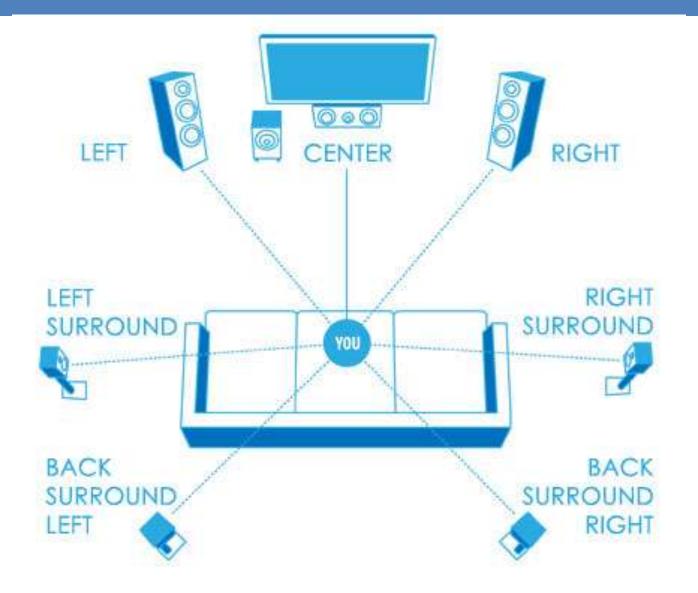




is a listener's ability to identify the location or origin of a detected sound in direction and distance.



Spatial Location



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NOTE

Think about sound and how You want to use it in enhancing Your VR experience right from day One, as you think about other assets In your pipeline



How Is Sound Useful In VR?



➢ Use sound to change how users perceive the size of an object









Use sound too create the Illusion of place













Use Sound to invoke feelings in your user









NOTE

Bad sound can make a very great VR experience terrible. Likewise, a really good sound can make a bad experience great.



How Do We Use Sound In VR?



Sound Effects (Button Press)

Ambient Sound(Environment)

Speech (Character Personality)

Music (Part and !Part of)



General Guidance For Using Sound In VR



Sound effects should be short and uncompressed(Faster to Process)

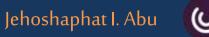
Ambient should be prepared as loops(Crossfade before importing)

Speech should be recorded with high quality and should not be compressed



Audio FX, Audio Mixer & Audio

Format



Audio Effects





Audio Mixer

Use mixer to create mix for your sounds

Use mixer for sound grouping



Audio Format

AIFF and WAV (Uncompressed)

MP3 and ORG (Compressed)

Try your best not to use compressed sound in your VR experiences. They are baaaaaaaaaaaaa



Additional Resources



 https://docs.unity3d.com/Manual/Au dio.html Reverb

2. https://www.gameaudio101.com/

3. https://en.wikipedia.org/wiki/Sound



Questions?



THANK YOU

