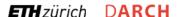
Exploring Sound Qualities in Architectural Design

Due Date: 2024-10-03

Document all your work in a post on the course website.

During this exercise, you will select three rooms and begin by creating profiles for each of them. As you proceed, you'll become familiar with the terminology used to describe the acoustic features of these spaces. Your ability to perceive sound nuances will be enhanced through attentive listening. A recording is done to sharpen the acoustic picture of the rooms.

- Identify two rooms, spaces, public areas, scenarios, or any locations, whether at your workplace, home, or outdoors, that you consider to be acoustically noteworthy.
- What's the main purpose of these spaces?
- Take some representative pictures of the spaces and describe their basic geometry.
- Describe what makes these spaces noteworthy in terms of acoustics.
- Is it the ambient sounds, how the room responds to the sounds you produce or the overall atmosphere that attracts your attention?
- Compile a list of specific acoustic events you can hear and identify, and specify their sources.
- Describe your personal interpretation of the spaces with your own vocabulary (daily language), and try to explain to a colleague how the places sound as accurately as possible.
- Which of the following adjectives (acoustic 'slang' terminology, as proposed by GPT3.5) are applicable to your spaces?
- Record your own voice with the handheld recorder at different distances. Listen to the recordings and comment on the differences. Add the recordings to your online documentation.



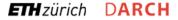
A list of slang words used in room acoustics

Generated with ChatGPT3.5

Prompt: I need english slang words to describe the acoustic properties of rooms and spaces. Can you compile me a list of words, with their explanations?

ChatGPT: Certainly! Slang words and phrases are often used to describe the acoustic properties of rooms and spaces in a more informal or creative way. Here's a list of slang words and phrases for describing acoustic properties:

- Dead: Refers to a room with very little reverb or echo, creating a muted and quiet sound.
- Live: Describes a space with a lot of reverberation, making sounds echo and linger.
- Boomy: Used for rooms where low frequencies are overly pronounced, creating a muffled or heavy sound.
- Tinny: Indicates an environment where high frequencies dominate, resulting in a sharp and piercing sound.
- Boxy: Refers to spaces that have a pronounced midrange frequency resonance, making the sound seem trapped within a box.
- Echoey: Describes a room with strong, clear echoes, often with a delay between the original sound and the echoes.
- Warm: Suggests a space with a pleasing balance of frequencies, typically with a gentle reverb that makes the sound feel cozy.
- Harsh: Used for rooms with excessive high-frequency reflections, causing sounds to be sharp and uncomfortable.
- Dull: Refers to a space with poor sound reflections, resulting in a lifeless and unexciting acoustic environment.
- Muddy: Describes a room where frequencies are muddled and unclear, often due to excessive midrange resonance.
- Crisp: Indicates a clear and distinct sound, typically with well-defined high frequencies.
- Sterile: Used for environments with almost no reverb, making the sound feel clinical and lifeless.
- Sizzly: Refers to an environment where high frequencies are exaggerated, creating a sharp, sizzling sound.
- Open: Describes a space with a natural and spacious acoustic quality, often associated with large, well-designed rooms.
- Reverb-y: Informal slang for a room with a lot of reverb or reverberation.
- Dense: Suggests an environment where sound reflections are numerous and tightly packed, resulting in a complex sonic character.
- Lush: Indicates a rich and full sound, often associated with spaces that have a pleasing balance of reflections.
- Cavernous: Used for very large spaces with pronounced echoes and reverberation, often resembling a cave-like acoustic quality.



 Resonant: Describes a room where certain frequencies resonate strongly, creating a pronounced emphasis on specific tones.

 Balanced: Refers to a room with an even distribution of frequencies, resulting in a well-rounded and natural sound.

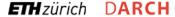
Remember that slang words can vary regionally and may not be universally understood, so it's essential to consider your audience when using them to describe acoustic properties. Additionally, these terms are often subjective and may be open to interpretation, so it's a good idea to provide more specific technical descriptions when needed.

Further adjectives that might apply to the spaces:

- Loud
- Silent
- Reflective
- Discreet
- Diffuse
- Noisy
- Quiet
- Clear

Additional considerations:

- Clarity of speech: Speech can easily be understood or is unclear
- What are common ambient sounds?
- What are common foreground noises?
- What's the purpose of the area?
- Sound isolation?
- Acoustic confidentiality?



About onomatopoeia

Generated with ChatGPT3.5

Prompt: Compile a list of onomatopoeic adjectives.

ChatGPT: Certainly! Onomatopoeic adjectives are words that imitate or resemble the sound they describe. Here's a list of onomatopoeic adjectives:

Buzzing - The sound of a continuous, low-pitched humming or vibrating noise.

Hissing - The sound of a sharp, hissing noise, often associated with air escaping or a snake.

Whirring - The sound of something rapidly spinning or rotating.

Creaking - The sound of a slow, squeaking noise, often associated with old or wooden objects.

Rustling - The sound of something moving or stirring with a gentle, soft noise, like leaves in the wind

Sizzling - The sound of something cooking or frying in hot oil, often accompanied by a crackling sound.

Purring - The soft, rhythmic sound made by contented cats.

Gurgling - The bubbling or gurgling sound of liquid flowing or being poured.

Splashing - The sound of liquid hitting a surface, often accompanied by the sound of droplets scattering.

Chirping - The high-pitched, repetitive sound made by small birds or insects.

Beeping - The short, intermittent sound of an electronic device, like a beep from a computer.

Ding-dong - The onomatopoeic sound of a doorbell or a ringing bell.

Clanging - The loud, ringing sound of metal striking metal.

Hoot - The onomatopoeic sound made by owls, often associated with a deep, resonant sound.

Bang - The loud, sharp sound of an explosion or collision.

Thump - The dull, heavy sound of something hitting a surface with force.

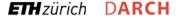
Rattle - The sharp, clattering sound of objects shaking or vibrating.

Swoosh - The sound of something moving quickly through the air, like a gust of wind.

Slurp - The sound of someone loudly and messily drinking a liquid.

Pop - The sound of something bursting or exploding, often associated with a small, sharp noise.

These onomatopoeic adjectives can add vividness and sensory detail to your descriptions and writing, as they directly evoke the sounds they represent.



Prompt: Can you provide me with a list of everyday objects with onomatopoeic names?

ChatGPT: Certainly! Here's a list of everyday objects with onomatopoeic names, where the word itself imitates or resembles the sound with the object:

Zipper - Makes a "zip" sound when opened or closed quickly.

Squeaky toy - Produces a high-pitched "squeak" when squeezed.

Clapperboard - Makes a clapping or "clack" sound when the two halves are brought together in filmmaking.

Jingle bells - Emit a "jingle" or tinkling sound when shaken.

Snap fastener - Creates a snapping sound when closed.

Rattlesnake - Named for the rattling sound produced by its tail.

Ping-pong ball - Makes a "ping" or bouncing sound.

Boombox - Can produce a booming or "boom" sound.

Buzzer - Emits a buzzing or "buzz" sound.

Sizzle plate - Used for cooking and makes a sizzling sound.

Tickler - Designed to produce a tickling sensation.

Clattertrap - An old, noisy, and rickety vehicle, where "clatter" suggests a loud, clattering noise.

Zigzag scissors - Used for cutting in a zigzag pattern, which resembles the sound implied by the word.

Ping-pong paddle - Used for playing table tennis, where "ping" suggests the sound of the ball bouncing.

Cuckoo - Mimics the distinctive two-note call of the cuckoo bird.

Flip-flops - Describes the sound made by open-toed sandals when walking.

