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HRTF(Head-Related Transfer Function)

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<https://ko.wikipedia.org/wiki/>

HRTF

HRTF (Head-Related Transfer Function) refers to the acoustic transformation function that occurs due to the unique shape, structure, and position of a human's head and ears. **HRTF** represents how external sounds change in terms of **frequency**, **phase**, and amplitude as they pass through the head and ears.

The human ears on both sides receive sounds differently depending on the spatial location around the head. This results in changes in the arrival time, intensity, and **frequency** spectrum of the sound, which significantly influence human perceptual localization and auditory experiences.

HRTF is determined by the individual's distinct head and ear shape and position, making it unique for each person. **HRTF** measurements and modeling are conducted for the purposes of auditory research and practical applications. Typically, actual ears are used for measurements, involving placing microphones in the ears and playing sounds from various directions and positions.

HRTF plays a crucial role in virtual or 3D audio systems. When applied, **HRTF** can provide spatial auditory location and direction information to listeners wearing headphones. This allows for a listening experience that closely resembles the actual sound source location, providing a realistic and

immersive sound experience in virtual or 3D audio environments.

HRTF finds applications in various fields such as audio technology, virtual reality (VR), gaming, music production, sound design, and more. It can be used to offer personalized audio experiences by measuring and applying an individual's unique HRTF or replicating various spatial audio effects.

Reference

https://en.wikipedia.org/wiki/Head-related_transfer_function



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