Human Auditory System

Tue, July 7 (Week 3)
Human Auditory System

Sounds waves -> Eardrum -> Cochlea -> Brain
Human Auditory System

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Eardrum

Outer ear reduces the problem of understanding the whole space with sound waves to the vibration of a eardrum.
Cochlea

Converting wave to the frequency domain.
Cochlea

Converting wave to the frequency domain.
Sound Localization
What is Spatial Audio?

BLOG #1

https://youtu.be/tIRcUlpWoh4
Sound Localization

The time difference of the sound reaching different ears.
Sound Localization

The auricle (pinna) has a complicated shape making every direction of sound to have a different result the brain can decipher.