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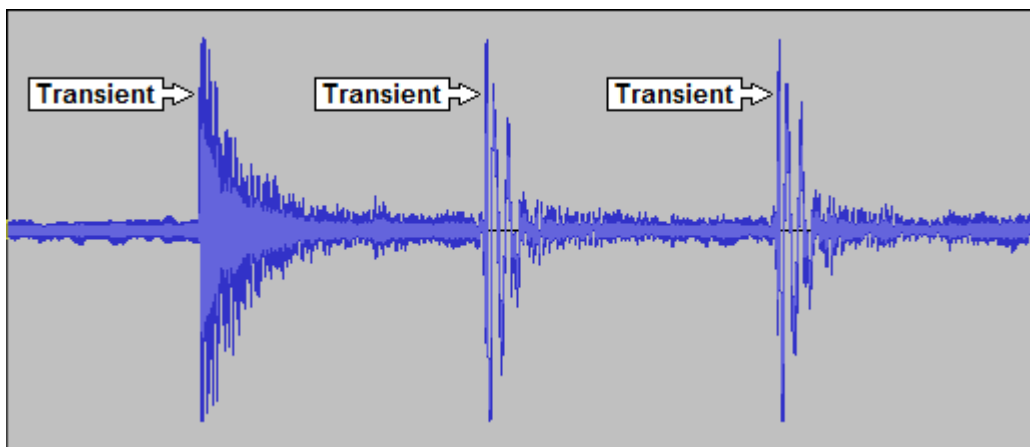
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Transient

A transient refers to a sudden, high-amplitude change in sound that occurs over a short period of time. It typically signifies moments when the sound undergoes rapid variations, often occurring at the beginning or end of a sound event. Transients exhibit brief bursts of intense vibration within a sound, causing an instantaneous surge in the sound's energy.

Transients are commonly associated with the attack or decay portions of a sound, such as when a musical instrument string is plucked forcefully, resulting in the initial burst of sound, or when a drum is struck vigorously, creating an abrupt onset of sound energy. These momentary changes in amplitude play a crucial role in defining the quality and characteristics of sound, particularly in music, where they contribute to an instrument's timbre and create impactful, dynamic effects.

Transients contain a wealth of complex harmonic information within a sound, making them a significant aspect of auditory perception. As a result, transients are a key focus in sound engineering, music production, and audio processing.



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: (admin@homerecz.com)