

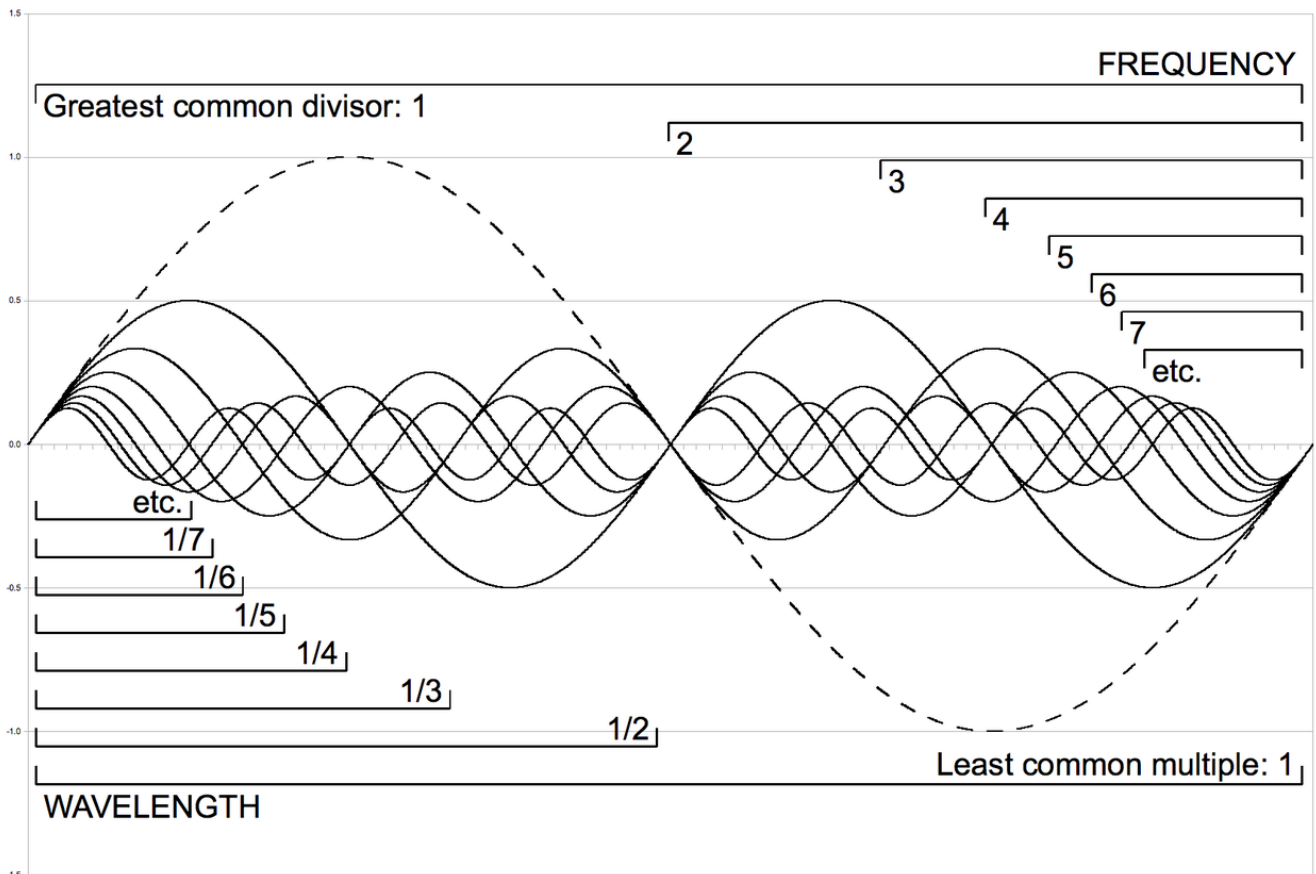


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가
가 100Hz
(100Hz)가
200Hz, 300Hz, 400Hz

가





Video

Missing Fundamental effect

The missing fundamental effect is a phenomenon related to audio perception and listening. This phenomenon occurs when the fundamental frequency is absent from the frequency spectrum, yet the higher harmonics are present, allowing people to perceive the fundamental frequency.

The missing fundamental effect is primarily observed in music, as musical instruments produce a variety of harmonics along with the fundamental frequency. For example, an instrument with a fundamental frequency of 100Hz will have harmonics at 200Hz, 300Hz, 400Hz, and so on. However, sometimes the fundamental frequency (100Hz) may be missing, yet the presence of higher harmonics alone can still lead to the perception of that frequency.

This occurs because the human auditory system tends to estimate the fundamental frequency by processing and combining the higher harmonics present in the audio input. Thus, even in the absence of the fundamental frequency, the human auditory system attempts to reconstruct it based on the combination of higher harmonics. This phenomenon can influence how humans perceive music even in the absence of the fundamental frequency.

Reference

- https://en.wikipedia.org/wiki/Missing_fundamental



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