



Why do sounds get softer? | Mechanical waves and sound | Physics | Khan

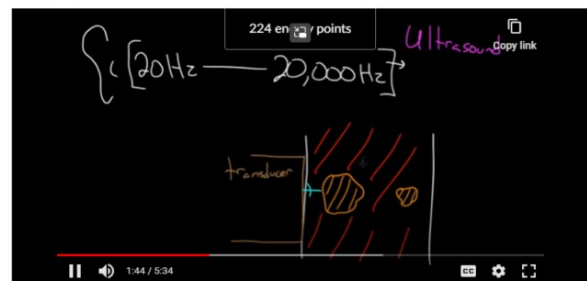
<https://youtu.be/46V8qqVRirk>

[Why do sounds get softer? | Mechanical waves and sound | Physics | Khan Academy - YouTube](https://youtu.be/46V8qqVRirk)

## Ultra Sonic

- Greater than 20 000 Hz
- Dog whistle
- But Ultra sounds use this to provide an image of inside the body.

<https://youtu.be/sTcqtIjxLOk>



[How diagnostic ultrasound systems work \(Canon Official\) - YouTube](#)



Animals also use ultrasound to find their prey and to recognize objects and obstacles. Some birds, bats, dolphins, whales, moths, mice, frogs, insects and even grasshoppers will use ultrasonic waves!

## Infrasonic

Infrasonic waves are sound waves that have a frequency below 20Hz.

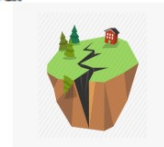
(Recall 20 Hz - 20 000 Hz is audible range for humans)



Whales, elephants, hippopotamuses, rhinoceroses, giraffes, octopus, pigeons and alligators use infrasound to communicate over long distances. Crickets can hear an infrasonic sound so they can hear footsteps from dogs or people from a long way away. We can hear some of their sounds but not their infrasound.



Natural causes of infrasonic waves can be from: earthquakes, volcanos, icebergs or avalanches.



[Do animals have language? - Michele Bishop \(youtube.com\)](#)