



Speakers



<https://www.quora.com/How-do-public-speakers-affect-society>

Speakers were invented in 1876 and are still used today. Some ways speakers are used is through stereos, alarm clocks, televisions, computers, headphones, and more. Speakers fit into the communication technology system model as part of the receiver component. The system involves a sender, encoding with decoding processes, and a channel, with the speaker playing a key role in delivering the final output to the user.

How They Work

<https://electronics.howstuffworks.com/speaker.htm> <https://www.soundcore.com/blogs/speaker/how-do-speakers-work-speakers-and-sound-production-explained#>

A vibrating object sends a wave of pressure fluctuation through the atmosphere, our brain interprets this motion as sound

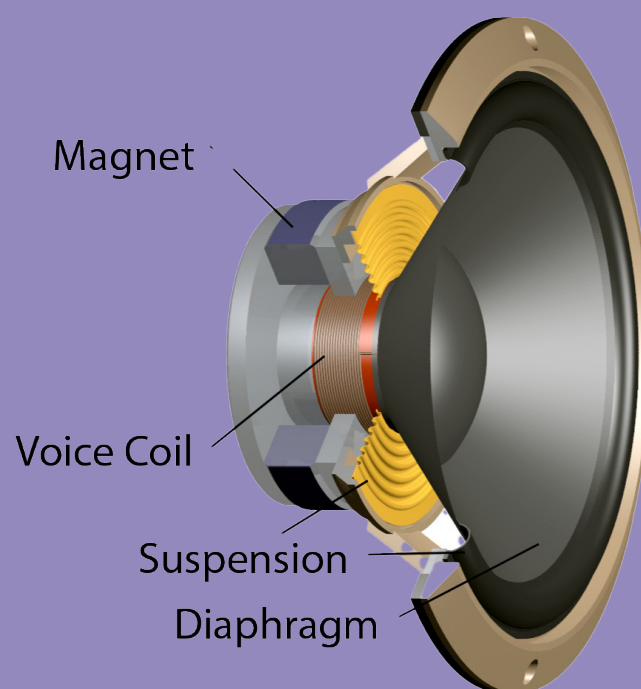
The diaphragm is rapidly moving sound waves

The waves are created by the diaphragm traveling in reverse and music is played!

Magnetic field is generated around the voice coil

The magnetic field causes the diaphragm to move

Air pressure is generated



<https://www.soundguys.com/how-speakers-work-29860/>

Electrical current travels from the negative area of the voice coil to the positive area which produces a magnetic field in reversed polarity

Increase in electrical voltage leads to increase in the magnetic field strength of the voice coil

Future Projections

- Improved Audio Quality
- Improved Home Devices



<https://www.amazon.com/all-new-amazon-echo-speaker-with-wifi-alexa-walnut/dp/B0752151W6>

The Impact

Political: Encourages individuals to vote

Social: Brings awareness to important causes

Cultural: Music and speeches can be heard from far distances and help the circulation of storytelling

Economic: Speakers used by CEO's or members of Ted Talks can change consumer behavior

Environmental: Can change bad habits to help nature