Opening Statement

(Record this at your computer or on a portable recorder after you recorded with all the mics)

Hi, I recorded my voice in front of a number of popular microphones to hear how each one colored or affected the sound of my voice.

Sound Room Recordings

Read the statements below in front of each microphone:

I am standing 8 inches in front of the …

**Studio Projects C1**
- The C1 is a **cardioid, large-diaphragm condenser** microphone
- Compares with professional microphones costing 10 times more
- Good for many recording situations including voice, instruments, etc.

I am now standing 8 inches in front of the …

**Shure SM58**
- The SM58 is a **cardioid dynamic** microphone
- Perhaps the most widely known vocal mic in the world
- The SM58 celebrated its 50th anniversary in 2016

I am now standing 1 inch in front of the…

**Shure SM58** to demonstrate **Proximity Effect**
I am now standing 8 inches in front of the …

**Sennheiser e609**
- The e609 is a *super-cardioid dynamic* microphone
- Designed for miking guitar cabinets face-on and extremely close to the source
- Provides isolation from other onstage signals
- Also suitable for miking drums, especially toms

![Sennheiser e609 Frequency Response](https://recordinghacks.com)

I am now standing 8 inches in front of the …

**Rode Procaster**
- The Procaster is a *cardioid dynamic* microphone
- It is designed for the radio and television broadcast market
- It owes a design debt to Electro-Voice **RE-20**; both are end-address dynamics tailored for close-miked vocals

![Rode Procaster Frequency Response](https://recordinghacks.com)

I am now standing 8 inches in front of the …

**AKG C1000S**
- The C1000S is a *cardioid small-diaphragm condenser* microphone
- It has been used for live music, broadcast vocals, podcasting, and instrument miking
- It is called the Swiss army knife of recording

![AKG C1000S Frequency Response](https://recordinghacks.com)
I am now standing 8 inches in front of the …

**Blue Baby Bottle**

- The Baby Bottle is a pressure-gradient **cardioid condenser**
- Has smooth and natural midrange and doesn't have excessive high-end sizzle

![Microphone Frequency Response](image1)

**Digital Camera Recordings with Shotgun Mic**

Read the statements below in front of the camera:

I am now standing about 5 feet in front of the …

**Rode VideoMicro DSLR Video Microphone**

- The VideoMicro is a **cardioid condenser** microphone
- A good microphone for recording audio for video
- It mounts on top of the camera and does not need a separate power source

![Microphone Frequency Response](image2)
Digital Camera and/or Field Recording in Stereo

Read the statements below in front of the field recorder:

I am walking in a circle about 2 feet away from the …

**Zoom H4N Digital Multi-track Recorder**

- The Zoom H4N is a **stereo condenser** microphone recorder
- It has two microphones at 90 degree angles from each other to reproduce stereo sound
- It can be mounted on top of a camera or used separately to record sound effects, Foley, etc.

![Graph showing frequency response](image)

**Closing Statement**

*(to be recorded at your computer or on a device after you record everything else)*

Well, that concludes my recording exercise to see how each of these microphones sounds with my voice.

- What I found was…
- My introduction and closing statements were record with a …

**Apple / Droid / Cell Phone Microphone**

- It most likely has a **MEMS microphones**
- They are a type of condenser microphone
- Read more: [https://en.wikipedia.org/wiki/Microphone#MEMS_microphone](https://en.wikipedia.org/wiki/Microphone#MEMS_microphone)