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If you're using Discord for voice communication, you may find that you need to tweak the audio bitrate to improve the quality of your calls. You can do this in Discord's settings menu—here's how. Change Audio Bitrate in Discord on Windows or Mac If you're using the Discord web player or the desktop app on your Windows 10 PC or Mac, you can change the audio bitrate by hovering over the voice channel name in the channel list for your server. Only server administrators can do this, however. When you hover over the channel name, the settings icon for the channel will reveal itself, as will joining the channel directly. Select the settings icon to change the settings for that channel. By default, all Discord users have access to audio bitrates between 8 and 96kbps (kilobytes per second), with 64kbps set as the default channel bitrate. If you're on a Discord server with enough Discord Nitro boosts, however, you'll gain access to higher bitrate values up to 384kbps. RELATED: What Is Discord Nitro, and Is It Worth Paying For? In the "Overview" settings menu for your voice channel, move the "Bitrate" slider up or down within the limits available on your server. Any changes you make to your audio bitrate settings are applied automatically. Once you've changed the audio bitrate, close this menu by selecting the close button in the top-right corner or by selecting the Escape key on your keyboard. Change Audio Bitrate in Discord on Mobile Devices If you're using Discord on Android, iPhone, or iPad, you can also change the audio bitrate for voice channels in servers you own or moderate. To do this, open the Discord app and tap the hamburger menu icon in the top-left corner. Make sure to select the correct server, then select and hold the voice channel you wish to change in the channel list. After a few seconds, the "Channel Settings" menu will appear, allowing you to change the name, channel limit, and bitrate settings. Move the "Bitrate" slider up or down to increase or decrease the audio bitrate quality. Once you're happy with the setting, tap the Save button in the bottom-right corner. With the audio bitrate changed, join the channel by selecting it in the channel list (if you haven't already done so). The audio bitrate you've selected will apply automatically when you join. If the bitrate is too high (or too low), you'll need to repeat these steps to change it again. Notifications on Android are a key part of the smartphone experience, and the sounds that go with them are equally as important. If you're hearing notification sounds all day, you might as well make them sound better. Here's how to do it. Thankfully, it's super easy to change notification sounds on Android devices. Every phone or tablet will come with its own default sounds, but you don't need to use them. There's always a handful of sounds to choose from. RELATED: What Are Android Notification Channels? First, swipe down from the top of the screen once or twice and tap the gear icon to open the Settings menu. In the Settings, look for something like "Sound" or "Sound & Vibration." The name of the section will be different depending on the Android version and device manufacturer. Next, look for "Notification Sound" or "Default Notification Sound." You might have to expand an "Advanced" section to find the option. You'll now see a list of notification sounds to choose from. Tapping one of the sounds will play a preview. Again, this will look vastly different from device to device. There will usually be an option to use your own custom audio clips as well. Look for a "+" button. (Sometimes it will be inside a "My Sounds" section.) Once you've found a sound that you like, tap "Save" or "Apply" to finish. RELATED: How to Disable Notifications on Android There are many editing tools you've probably used before. Cropping, fixing redeye, adding filters, etc. Changing the perspective of a photo is not as common, but it's also not as difficult as you might think, thanks to Google Photos. Perspective describes the angle at which the photo was taken. This can greatly affect how something looks in a photo. Take a look at the photos below. The TV shape looks like a trapezoid from the side (left), but I can make it a flat rectangle by adjusting the perspective (right). To adjust that perspective of your photos, we'll be using the Google Photos app for Android, but Google's Photos app is also available on iPhone and iPad. It's surprisingly simple for such a powerful tool. RELATED: How to Transfer Your iCloud Photo Library to Google Photos First, open the Google Photos app and select a photo that needs the perspective adjusted. Next, tap the "Edit" icon underneath the photo. Move to the "Crop" tools in the toolbar and select the trapezoid perspective icon. You can now drag the four corners of a box to select the part of the image you would like to flatten. A bubble will appear when you select a corner to give you a zoomed-in look. When you're done, tap "Done." That part of the photo will be flattened and cropped. If you're happy with the result, tap the "Save" button. That's it! This is a pretty nifty tool and it's not something you typically see in free, simple photo editing apps. Google Photos has a lot to offer even if you're not using it for cloud backups. This is just one example of how powerful it is. RELATED: How to Hide Images with Google Photos' Locked Folder You can adjust the your speaker volume in-app, operating system-wide, or by the physical controls on your speaker setup. Which method is best for optimum sound? Today's Question & Answer session comes to us courtesy of SuperUser—a subdivision of Stack Exchange, a community-drive grouping of Q&A web sites. The Question SuperUser reader Qqwy poses the following question: If music isn't loud enough, how do I get the best quality (even if the difference is in fact so small it's negligible)? By making the music louder in my music player, game or other sound-producing software program? By raising the volume at the operating system level (for instance, by clicking the speaker icon in the Windows notification area and turning the volume up)? By turning the volume up on the amplifier or speakers that are attached to your computer, and thus changing the volume on the hardware? Does programs vs. OS matter? Does software vs. hardware matter? Let's get to the bottom of things: is it better to crank up the volume at the speaker or within your computer's settings? The Answer SuperUser contributor Indrek jumps in with a definitive answer to the question: Program vs. OS generally doesn't matter. What matters is whether you're adjusting volume in software or in hardware. Reducing volume in software is basically equivalent to reducing the bit depth. In digital audio, the signal is split up into distinct samples (taken thousands of times per second), and bit depth is the number of bits that are used to describe each sample. Attenuating a signal is done by multiplying each sample by a number less than one, with the result being that you're no longer using the full resolution to describe the audio, resulting in reduced dynamic range and signal-to-noise ratio. Specifically, every 6 dB of attenuation is equivalent to reducing the bit depth by one. If you started with, say, 16-bit audio (standard for audio CDs) and reduced the volume by 12 dB, you'd effectively be listening to 14-bit audio instead. Turn the volume down too much and quality will start to suffer noticeably. Another issue is that these calculations will often result in rounding errors, due to the original value of the sample not being a multiple of the factor by which you're dividing the samples. This further degrades the audio quality by introducing what's basically quantisation noise. Again, this mostly happens at lower volume levels. Different programs might use slightly different algorithms for attenuating the signal and resolving those rounding errors, which means there might be some difference in the resulting audible signal between, say, an audio player and the OS, but that doesn't change the fact that in all cases you're still reducing bit depth and essentially wasting a portion of the bandwidth on transmitting zeroes instead of useful information. This PDF has more information and some excellent illustrations if you're interested in learning more. The result of reducing the volume in hardware depends on how the volume control is implemented. If it's digital, then the effect is much the same as reducing the volume in software, so there's probably little to no difference in which one you use, in terms of audio quality. Ideally, you should output audio from your computer at full volume, so as to get the highest resolution (bit depth) possible, and then have an analogue volume control as one of the last things in front of the speakers. Assuming all the devices in your signal path are of more or less comparable quality (i.e. you're not pairing a cheap low-end amplifier with a high-end digital source and DAC), that should give the best audio quality. @Joren posted a good question in the comments: So if I want to set software volume control to max, how do I deal with my analog controls suddenly having a super tiny usable range? (Because even turning the analog volume to half is way too loud.) This can be a problem when the volume control is part of an amplifier, which is probably the case with most computer setups. Since an amplifier's job is to, as the name suggests, amplify, this means that the volume control's gain ranges from 0 to more than 1 (often much more), and by the time you've turned the volume control to the halfway point, you're probably no longer attenuating, but actually amplifying the signal beyond the levels you set in software. There's a couple of solutions to this: Get a passive volume control. Since it doesn't amplify the signal, its gain ranges from 0 to 1, which gives you a much larger usable range. Have two analogue volume controls. If your power amplifier or speakers have a volume or input trim control, that will work great. Use that to set a master volume level so that your regular volume control's usable range is maximised. If the previous two aren't possible or feasible, simply turn down the volume at the OS level, until you've reached the best compromise between the usable range on the analogue volume control and audio quality. Keep individual programs at 100% so as to avoid several bit depth reductions in a row. Hopefully there won't be a noticeable loss in audio quality. Or if there is, then I'd probably start looking at getting a new amplifier that doesn't have as sensitive inputs, or better yet, has a way to adjust input gain. @Lyman Enders Knowles pointed out in the comments that the issue of bit depth reduction does not apply to modern operating systems. Specifically, starting with Vista, Windows automatically upsamples all audio streams to 32-bit floating point before doing any attenuation. This means that, however low you turn the volume, there should be no effective loss of resolution. Still, eventually the audio has to be downconverted (to 16-bit, or 24-bit if the DAC supports that), which will introduce some quantisation errors. Also, attenuating first and amplifying later will increase the noise floor, so the advice to keep software levels at 100% and attenuate in hardware, as close to the end of your audio chain as possible, still stands. Have something to add to the explanation? Sound off in the the comments. Want to read more answers from other tech-savvy Stack Exchange users? Check out the full discussion thread here. How-To Geek is where you turn when you want experts to explain technology. Since we launched in 2006, our articles have been read more than 1 billion times. Want to know more?

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