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Sound is one of the many motivators of our day, whether it's that song that powers you through an extra rep at the gym or that podcast you like to unwind to after a long day at work. As sound has continued to evolve, so have digital file formats. Although it isn't the only file format, the term MP3 has become synonymous with digital music in the same way that Google has with a web search — not surprising, given that the file format is now more than 20 years old. In that time, it has been surpassed by other file formats, one of which is MP4. But even though the increase from 3 to 4 in the name suggests that the MP4 is simply the next generation of MP3, there's more to it than that. Is an MP4 file better than an MP3? Should you stop using MP3s? And what exactly are the differences anyway? All excellent questions, which we will strive to answer using as little geek-speak as possible. What is an MP3? Before we can tackle the differences between MP3 and MP4, let's do a quick recap of an MP3 file and its uses. MP3 is a short form for MPEG-1 Audio Layer 3. It was developed to give us a way to store audio information in digital form, but with a smaller file size than the format used by CDs at the time. MP3s do this using a psychological trick — they start by taking an original, uncompressed digital audio file (like a track on a CD), and then they selectively remove chunks of data in a way that the human ear is unlikely to notice. It's a process known as "lossy compression." It's the same trick used by JPEG files to shrink the size of photos without affecting the key details that make it look as good as the original. The same is true for MP3 files: Though they only take up about a 10th of the storage size as a CD audio track, most folks find them to be an acceptable listening experience. Are all MP3s the same? Bowers & Wilkins No, and the differences can be noticeable. When creating an MP3 from a source, whether it's CD or even vinyl, you choose a bitrate and a sample rate — these two values will determine how big your MP3 will be in terms of file size, but more importantly, how good it will sound when compared to the source you're using. Most MP3s are created with a 44.1 kHz sample rate — especially when converting from CD because it's the same sample rate used for creating CD audio. The bitrate, on the other hand, can be set anywhere from 8kbps to 320kbps. The difference between these two is huge — at 8kbps, your music will sound a little better than an AM radio with poor reception. At 320kbps, most people will find it impossible to tell the difference between an MP3 and a CD. If file size is a big consideration — as it was when the MP3 became popular — you can get away with as low as 128kbps before sound degradation becomes noticeable. 128kbps was preferred in the early days of the MP3 format because it was compatible with most MP3 playback devices like iPods. Still, today it would be rare to find a digital music player that can't handle all MP3 bitrates — even VBR (or variable bitrate) MP3s that use different rates during different parts of the music track as the complexity of the sound increases or decreases. What is an MP4? MP4 is a short form for MPEG-4 Part 14. Unlike the MP3, which is exclusively used for audio, an MP4 is a container file used to store audio, video, or other data like subtitles. This makes it a bit tricky to know exactly what an MP4 is. If you find one called "Rocky.mp4," is it the movie Rocky, or is it the movie's theme song? Or is it something else? To help reduce the confusion, Apple decided to start using the .m4a file extension for MP4 files that only contain audio, while .m4v is sometimes used to indicate that it's a video. But since these are conventions, not rules, the only real way to know is to try opening the file using an MP4-compatible media player or examining the file's contents. But what does this have to do with MP3s, you might be wondering? An MP3 is both a file format and a codec — which means that it can only handle audio using the lossy compression described above. Because MP4 files are containers, you can choose from several different audio codecs depending on your needs. Typically, people will use the AAC (Advanced Audio Coding) codec. It's a lossy compression codec like MP3, with the same bitrate options for quality, but it does a better job of preserving details and nuances in music at the same file size as an MP3. However, Apple's hi-res capable lossless audio codec, ALAC, is also an option for MP4 files, which preserves all of the detail of a CD, or a vinyl album, while still keeping file sizes smaller than the original — making it a good choice for archiving music. Which one is better? Most experts would argue that an AAC-encoded MP4 audio file sounds better than a similarly sized MP3. That makes sense as AAC is a newer compression technology. However, it would help if you kept in mind where and how you plan to play your music files. There are still folks out there holding on to some pretty old portable music players that still work just fine — but these may not be compatible with the MP4/AAC format. An MP3 file is virtually guaranteed to work on any device that plays digital music. It's also worth noting that at 320kbps, an MP3 will probably sound identical to a 320kbps MP4/AAC. If, as we've suggested earlier, you intend to archive your digital or analog music, an MP4 using ALAC is far superior to the MP3. As a lossless format, ALAC not only preserves all of the detail of your source material, it still lets you create MP3s (or MP4/AACs) anytime you like if you need a smaller, more portable version. The same is not true in reverse: Once an MP3 has been created (and parts of the original audio information discarded in the compression process), you can't get it back by converting it to MP4/ALAC. Doing so creates a larger file of the same quality as the MP3. So which one should I use? If you already have a massive collection of MP3 audio files, and they've been created at 256kbps or higher, keep 'em. The odds are good that you wouldn't notice much improvement in sound quality by re-encoding your CDs using an MP4 file unless you're using some high-end audiophile gear. On the other hand, if you're thinking of ripping new CDs from scratch, or converting analog sources to digital, an MP4 — especially one that uses the lossless ALAC codec — is the way to go. You'll have an essentially perfect digital file, which can then be converted to your choice of lossy formats later — including MP3 if you're concerned about backward compatibility with older devices. Lossless MP4 files take up a lot more room, but if you've got the available hard drive space, they're worth it. More resources If this discussion of the differences between MP3 and MP4 files has piqued your curiosity about digital music and its many formats, we've got some great resources to dive into: Editors' Recommendations A file with the .mp4 file extension is an MPEG-4 video file format. MP4s are one of the more common video file formats used for downloading and streaming videos from the internet. It's a highly versatile and compressed video format that also can store audio, subtitles, and still images. RELATED: What Is A File Extension? What Is an MP4 File? MP4 files were created under the ISO/IEC 14496-12:2001 standard by the ISO/IEC and Motion Picture Experts Group (MPEG). Because of this, MP4 is an international standard for audio-visual coding. Initially created in 2001, MPEG-4 Part 12 was based on the QuickTime File Format (.MOV). The current version—MPEG-4 Part 14—was released in 2003. MP4 is considered a digital multimedia container format—essentially a bunch of data that's been compressed. The standard specifies how the data is stored within the container itself, but not how that data is encoded. With the high degree of compression used in MP4 videos, this allows the files to be much smaller in size than other video formats. Reducing the file size doesn't immediately impact the quality of the file, either. Almost all of the original quality is retained. This makes MP4 a portable and web-friendly video format. While MP4 files can play audio, they shouldn't be confused with M4A and MP3, as these are file formats that only contain audio. RELATED: What Is An MP3 File (And How Do I Open One)? How Do I Open an MP4 File? Because MP4 is a standardized file format for video, almost all video players support MP4. To open a file, all you have to do is double-click your video, and it will open with your operating system's default video viewer. Android and iPhone natively support playback of MP4 as well—just tap the file, and you'll be watching your video in no time. Windows and macOS users can play MP4 files without having to install any third-party software. Windows uses Windows Media Player by default; in macOS, they're played using QuickTime. If, however, you prefer a different video player than either of those, changing the association of a file is a simple process on either Windows or macOS. And you most likely won't even have to do that. When you install a new video playback app, the chances are high that the new app will claim the association with MP4 files during installation, unless specified otherwise.

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