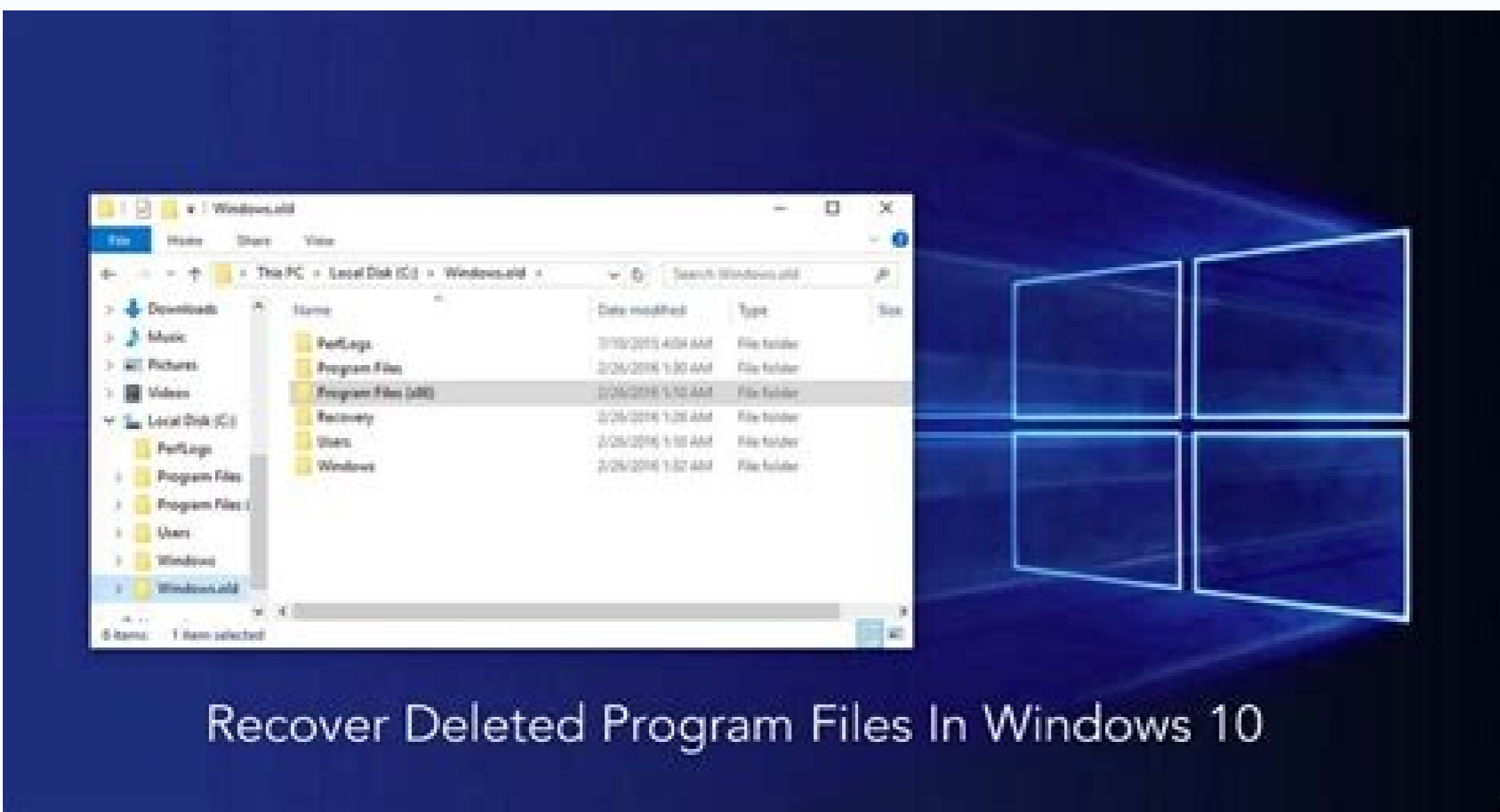
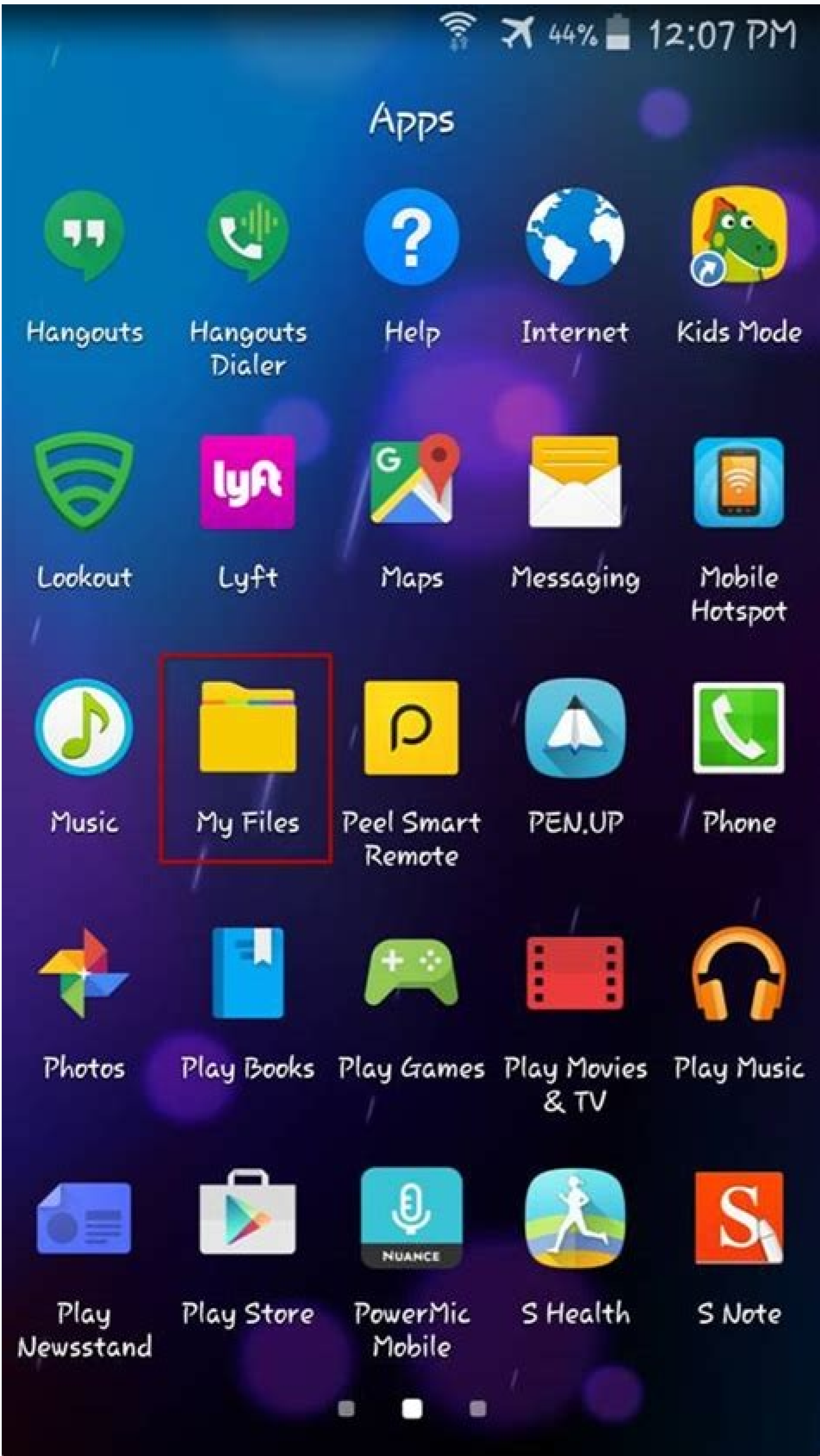
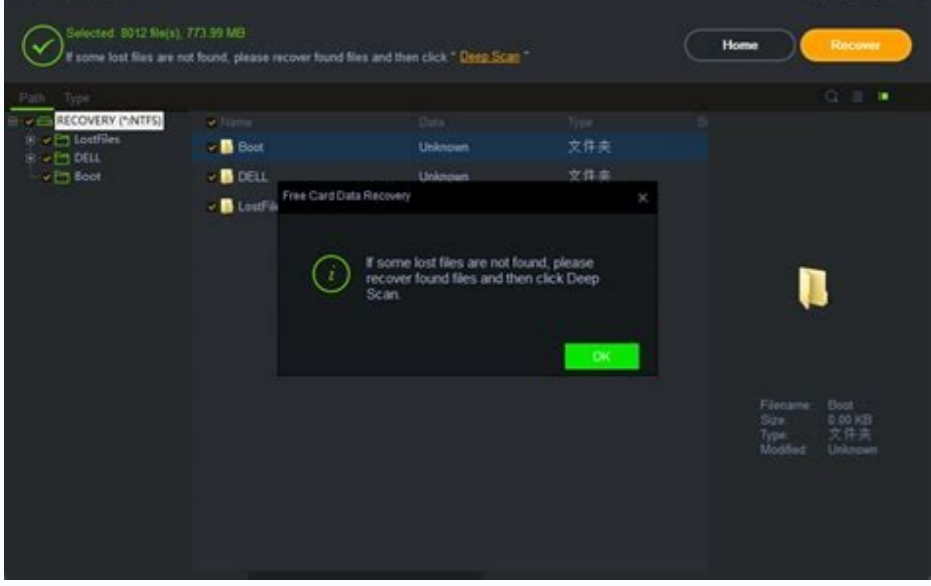


## How to retrieve deleted files in android

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Some utilities have a "secure delete" option that promises to securely erase a file from your hard drive, removing all traces of it. Older versions of Mac OS X have a "Secure Empty Trash" option that tries to do something similar. Apple removed this feature recently because it just doesn't work reliably on modern drives. The problem with "secure delete" and "secure empty trash" is that it provides a false sense of security. Rather than relying on these sorts of bandaaid file-deletion solutions, you should rely on full-disk encryption. On a fully encrypted disk, both deleted and undeleted files are protected. Why "Secure Delete" Options Were Created RELATED: Why Deleted Files Can Be Recovered, and How You Can Prevent It Traditionally, deleting a file from a mechanical hard drive didn't actually delete that file's contents. The operating system would mark the file as deleted, and the data would eventually be overwritten. But that file's data was still sitting on the hard drive, and file-recovery tools could scan a hard disk for deleted files and recover them. This is still possible on USB flash drives and SD cards, too. If you have sensitive data — for example, business documents, financial information, or your tax returns — you might worry about someone recovering them from a hard drive or removable storage device. How Secure File Deletion Tools Work "Secure delete" utilities attempt to solve this problem by not just deleting a file, but overwriting the data with either zeros or random data. This should, the theory goes, make it impossible for someone to recover the deleted file. This is sort of like wiping a drive. But, when you wipe a drive, the entire drive is overwritten with junk data. When you securely delete a file, the tool attempts to overwrite only that file's current location with junk data. Tools like this are available all over the place. The popular CCleaner utility contains a "secure delete" option, Microsoft offers an "sdelete" command for download as part of the Sysinternals suite of utilities. Older versions of Mac OS X offered "Secure Empty Trash", and Mac OS X still offers an included "srm" command for securely deleting files. Why They Don't Work Reliably The first problem with these tools is that they'll only attempt to overwrite the file in its current location. The operating system may have made backup copies of this file in a number of different places. You may "securely delete" a financial document, but older versions of it may still be stored on disk as part of your operating system's previous versions feature or other caches. But, let's say you can solve that problem. It's possible. Unfortunately, there's a bigger problem with modern drives. With modern solid-state drives, the drive's firmware scatters a file's data across the drive. Deleting a file will result in a "TRIM" command being sent, and the SSD may eventually remove the data during garbage collection. A secure delete tool can tell an SSD to overwrite a file with junk data, but the SSD controls where that junk data is written to. The file will appear to be deleted, but its data may still be lurking around somewhere on the drive. Secure delete tools just don't work reliably with solid-state drives. (The conventional wisdom is that, with TRIM enabled, the SSD will automatically delete its data when you delete the file. This isn't necessarily true, and it's more complicated than that.) Even modern mechanical drives aren't guaranteed to work properly with secure file deletion tools thanks to file-caching technology. Drives try to be "smart", and there's not always a way to ensure all bits of a file were overwritten instead of being scattered over the drive. You shouldn't try to "securely delete" a file. If you have sensitive data you want to protect, there's no guarantee it will be erased and made unrecoverable. What to Do Instead Rather than using secure-file-deletion tools, you should just enable file-drive encryption. Windows 10 has Device Encryption enabled on many new PCs, and Professional versions of Windows also offer BitLocker. Mac OS X offers FileVault encryption, Linux offers similar encryption tools, and Chrome OS is encrypted by default. When you use full-drive encryption, you don't have to worry about someone getting access to your drive and scanning it for deleted files. They won't have the encryption key, so even the bits of deleted files will be incomprehensible to them. Even if bits of the deleted files are left on the drive, they'll be encrypted and just look like random nonsense unless someone has the encryption key. Even if you have an unencrypted drive that contains sensitive files you want to get rid of, and you're about to dispose of the drive, you're better off wiping the entire drive rather than attempting to wipe just the sensitive files. If it's very sensitive, you're better off destroying the drive entirely. As long as you use encryption, your files should be protected. Assuming your computer is powered down and the attacker doesn't know your encryption key, they won't be able to access your files — including the deleted ones. If you have sensitive data, just encrypt your drive and delete files normally rather than attempting to rely on secure-deletion tools. They might work in some cases, but can often offer a false sense of security. Secure file deletion just doesn't work reliably with modern hard drives. Dropbox is a cloud-based storage platform you can use to store (and access) files remotely. If you've used Dropbox for a while and have uploaded lots of files, or you're running out of storage space on your Dropbox account, delete the most unnecessary files to free up space. The following sections feature screenshot instructions using the Dropbox desktop client for macOS. You can follow along if you use the desktop client for Linux or Windows, although you might notice a few slight differences. Open the Dropbox desktop client, and navigate to the file you want to delete. Right-click the file you want to delete, then select Delete. You can also click a file, select the three dots in the previewer on the right, then select Delete. An easier option is to drag and drop any file into your computer's trash can. You might see a message asking if you're sure you want to delete the file. If your goal is to free up space on your computer's hard drive without deleting the file from your Dropbox account, select See sync options to find out how to turn on this option. If you're sure you want to delete the file across your whole account, select Delete Everywhere. To recover deleted files or permanently delete files to free up space, use Dropbox.com in a web browser. You can also use the web client to clear some space in your Dropbox account. Here's how. Navigate to Dropbox.com in a web browser, and sign in to your account. Navigate to the file you want to delete. Select the three dots to the right of the file name. Choose Delete. Select Delete to confirm the deletion. You can recover the deleted file for a limited time. Your storage space won't be freed up until it's permanently deleted. To either recover or permanently delete the file you just deleted in the previous steps, select Deleted files from the left menu. Hover the cursor over the file you want to either recover or permanently delete and select the check box to the left of it. To the right, select Restore or Permanently delete. The following sections feature screenshot instructions using the Dropbox desktop mobile app for iOS. You can follow along if you use the Android app, although you might notice a few slight differences. Open the Dropbox app on your mobile device and navigate to the file that you want to delete. Tap the three dots below the file. Tap Delete. Tap Delete to confirm your deletion. To recover deleted files or permanently delete files to free up space, you can only do so from Dropbox.com. Deleting files from your Dropbox account will: Immediately free up space in your account for more important files. Keep your files and folders organized. Cut down on old or unnecessary files that are no longer needed. Save you time from having to browse through so many files and folders. Prevent you from having to upgrade to a more expensive plan to get more storage space. Give you the opportunity to recover deleted files within a certain time frame, depending on your Dropbox plan. If you have a free Basic account or a Plus account, you can recover deleted files up to 30 days after deletion. If you have a Business account, the recovery time frame is extended to 120 days. If you have a Professional account, you have up to 180 days. Deleting files from your Dropbox account means: You can't recover deleted files after the recovery time frame is up. If you choose to delete files permanently, those files can't be recovered. You may be unable to delete as many files as you want all at once since Dropbox limits the number of files you can delete at one time. You can't permanently delete content from a shared folder unless it's content you added and immediately deleted. Permanent deletion of files is required to free up space. Thanks for letting us know! Get the Latest Tech News Delivered Every Day Subscribe Tell us why! Usrm asked the Desktops forum how to get rid of files that refuse to be deleted. When you select a file, press the Delete key, and get an error message, chances are some program has that file open. But what program? Windows doesn't tell you. The best tool for working around this problem is Unlocker, yet another free utility. Once you have it installed, you can simply right-click the stubborn file and select Unlocker. Then you select the file from the program's list, select Delete from the pull-down menu in the lower-left corner, and click Unlock. You have your choice between three versions of this program, all of them free. There are 32- or 64-bit versions of the regular program—obviously, you need the one that matches your edition of Windows. Or you can pick the portable version that doesn't need to be installed (here, one .zip file contains both the 32- and the 64-bit code). The problem with the portable version, of course, is that if you right-click a file in Windows Explorer, you won't get an Unlocker option. You'll have to load the program, then navigate it to the unwanted file. Read the original forum discussion. Add your comments to this article below. If you have other tech questions, email them to me at answer@pcworld.com, or post them to a community of helpful folks on the PCW Answer Line forum.

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