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How to increase internal memory of phone. How to upgrade internal storage on android. How to increase internal memory of mobile phone. How to increase internal memory of android phone without sd card. How to increase internal memory of android phone.

Go to Settings > Cloud and accounts > Backup and restore (or Systems > Backup on some phones). Select the options you want to back up automatically. This article explains how to back up your Android phone automatically. It also includes information on backing up using third-party apps and on manually backing up your photos. This information applies to phones with Android Pie, Oreo, or Nougat. Backing up your Android data is simple. Google stores most of your options and data in the cloud, making it easy to transfer it from one device to another, such as when you buy a new phone. As long as your Android device uses your primary email, nearly everything in the Google suite, including Calendar, Contacts, Gmail, and other Google apps, is set to automatically back up. By default, your Android phone is set to back up data automatically. Follow these steps to make sure the settings are correct. Tap the Settings app to open the Android settings. Go to Cloud and accounts and tap Backup and restore. If that option isn't on your device, select System > Backup. The options for each phone are different, so you may need to hunt for this setting. Select the backup options you want. Many phones display the last time the data was backed up, as well as a way to back up manually. On older phones, there may be an option to manually back up all your Android data. Navigate to System > Advanced > Backup > Backup now. There are several third-party options to back up an Android device. Samsung users can use the Samsung Cloud service. Here are some other options: G Cloud Backup: It's free, it's easy to use, and one of the highest-rated Android backup apps in the Google Play store. G Cloud Backup has an intuitive setup, and you choose which apps, items, and data to back up. It also has inexpensive options to upgrade an account and add more data and choices. App Backup and Restore: App Backup and Restore offers a few more options for users with a lot of data, but it's not quite as easy to use as G Cloud. If you prefer to have a physical data backup (such as an SD card) over cloud storage, this one is a better bet for ease of use. SMS Backup & Restore: If you want to access your text messages across devices, this is the app for you. It's easy to use, and you can set up an automatic update schedule so you don't need to remember to manually back up your messages. After you set up a schedule, this app does the rest. Automatic backups are great, but they don't include some data, like pictures. You need to back up photos separately. Several services can back up photos from your Android smartphone, including Dropbox and Amazon Photos, which is free if you have Amazon Prime. Google Photos is also a good option, and easy to use. Here's how to use Google Photos to back up photos on an Android phone: Download Google Photos from the Play Store and open the app. In the search bar at the top, tap Menu (the three stacked horizontal lines) and select Settings. Select Back up & Sync. Turn on the Back up & sync toggle switch. If you want to back up photos from locations other than your camera folder, select Back up device folders and choose the folders to back up. Thanks for letting us know! Get the Latest Tech News Delivered Every Day Subscribe Tell us why! Android 10 is here—for Pixel devices, at least. We typically recommend everyone update to the latest and greatest version of an operating system to enjoy its features, security patches, and bug fixes, but that doesn't mean you're guaranteed to have a perfect experience on your new OS. If you encounter any critical issues in Android 10 (including slowdowns), or you just miss the familiarity of Android 9, you can downgrade your device. Though you're probably better off holding out for any fixes, or backing up your information and factory-resetting your phone to see if that addresses any problems, the nuclear option is still there if you need it. In this guide, we'll walk you through the process of reverting from Android 10 to Android 9. We're doing this on a Pixel because that's what we have (and what has Android 10). This process will be different for other Android devices—if you can even downgrade at all—and we'll address those in a separate guide once Android 10 is more widely available. Installing the Android SDK Platform-Tools package We'll be using the command-line tool ADB, short for Android Debug Bridge, to downgrade our Google Pixel 3 XL, which means we have to install the Android SDK Platform-Tools package before we can get started doing anything. Click that link, grab the installer for Windows or Mac, and unzip its contents a folder—your pick. Make sure your phone is fully updated. This one sounds like a strange step, given we're trying to downgrade our Pixel device, but hear me out. The downgrade won't work if there are pending Pixel updates. So, to prevent that, pull up Settings > System > Advanced > System update and check to see if anything is available. If so, download the update, install it, and restart your device. Download the older operating system image For Google's Pixel phones, the company gives you a big list of operating system images to pick from. All I had to do was find my device (a Pixel 3 XL) and grab an image for Android 9.0. Easy as that. In my case, I used the most recent Android 9 image available: 9.0.0 (PQ3A.190801.002, Aug 2019) Spoiler: This actually wasn't the correct file to use at all, a fact I'll address later in this piece. It's around this point where my first attempt at downgrading my device started to go south, and I wanted to leave my initial thoughts here so you can get a full sense of what to do, and what not to do, if you're following some downgrading directions you saw on Google's site for the first time. Enable USB Debugging in order for my computer to talk to my phone over ADB. I also needed to first enable USB Debugging. To do that, pull up Settings > About phone, scroll to the bottom to find "Build number," and tap that frantically until you enable Developer Options on your device. Head back to Settings > System > Advanced and tap Developer options. Scroll down to the "Debugging" section and enable "USB debugging." Spoiler: You'll also want to enable "OEM unlocking" while you're here, which I neglected to do until my second downgrading attempt. More on that in a bit. Plug your phone into your computer Easy, right? As you're doing this, pull up an elevated Command Prompt (right-click and select Run as Administrator) or Terminal. Navigate over to where you unzipped the Android SDK Platform-Tools package. Reboot your Android and start downgrading (attempt one) Spoiler: I thought this was the right process at first. I was wrong. You can read through why this doesn't work in this section, or skip to the next section if you're getting antsy and just want to downgrade your device without the extra education. To get started, enter the following command to reboot your device into its recovery mode. (You might have to accept a "USB debugging" request on your device first, and then send the command again.) adb reboot recovery When I did this, my device pulled up a scary-looking "No command" screen. To get to the main recovery menu, I simply had to hold down the power button, tap the "up volume" button, and release the power button. From there, I selected the "Apply update from ADB" option on my device using the volume buttons and confirmed it using the power button. My Pixel then looked like this: Back on my computer, I ran the following command to begin sideloading Android 9 back onto my device: adb sideload crosshatch-ota-pq3a.190801.002-13edb921.zip Yes, that file name is the name of the Android 9 image I downloaded from Google. And, yes, it has to be in the same folder as adb—don't forget to move it there from your default downloads folder. Not only could I see a little flurry of activity on my device: But I also got a little progress indicator (a percent counter) on my Command Prompt. And then everything failed: How to downgrade your device (the successful attempt) I suspect this method would allow you to upgrade your device without an issue, but there are actually a few more steps involved when you're trying to downgrade your device. First, I had to reboot the phone back to its regular state, revisit Developer options in the Settings app, and enable an option I forgot about: OEM unlocking. I then rebooted back into ADB by typing adb reboot bootloader in the Command Prompt. Next, I had to install Google's USB drivers by downloading them, unzipping them, pulling up Windows' Device Manager, and manually updating the flagged Android device (by right-clicking, selecting "Update driver," and pointing to the directory where I previously unzipped Google's USB drivers). I unplugged my phone and plugged it back in (for good luck, I suppose), and I was able to confirm my system could see it by typing fastboot devices in the command prompt. I then downloaded Google's factory image of Android 9 for my device—not the OTA image I previously pulled—and dropped it into the same folder as my ADB tool. I felt pretty ready at this point. I unlocked my phone's bootloader by typing fastboot flashing unlock into the command prompt. This prompted my device to issue a scary little warning, which I ignored. I used the volume buttons to select the new "Unlock the bootloader" option and confirmed using the power button. While my phone's bootloader unlocked, I unzipped the factory image I previously downloaded directly into my ADB folder, so its contents were swimming among all the other files. (Don't unzip them to a new folder within your platform-tools folder.) Finally, I typed flash-all into my Command Prompt and crossed my fingers. And...that failed, too, because it said the image wasn't compatible with my device. Sigh. To get around this issue, I decided to try flashing with a different factory image entirely—the very first "crosshatch" image available for my Pixel 3 XL, "9.0.0 (PD1A.180720.030, Sep 2018)." I deleted the previous image's contents from my platform-tools folder, unzipped this image's contents into the folder like before, and ran flash-all again. And it seemed as if things were working, as I was getting a lot more data about the update processing than before: After about two minutes, the update finished and my device automatically rebooted. With more fingers crossed—I think I was losing circulation by this point—I powered down my Pixel and manually rebooted it into fastboot mode by holding down the power and volume-down buttons. I then entered fastboot flashing lock into the Command Prompt to lock the bootloader back up (which, again, required me to pick the correct prompt on my phone). Finally, I rebooted my device one final time by selecting the "Start" option on the fastboot screen (using the power button, of course). And—Great Scott!—we've traveled back to the past. Here's that Pixel 3 XL now on Android 9 with the old September 2018 security update: A summary of how to (really) downgrade your device I realize that this long, meandering journey to downgrade my phone might be slightly confusing, but I wanted to walk you through the process to show you the trial-and-error steps you might have to take when you're performing a downgrade on your device—be it a Pixel, a Samsung, or whatnot. I've seen plenty of "downgrading Android" guides that tend to leave out a step or two that's absolutely critical to the equation. Or, worse, they leave you hanging when you follow their steps and find that the process didn't work for you. By watching how I did it, hopefully you've leveled up your troubleshooting techniques should you find yourself similarly stuck. Here's my final checklist of steps for downgrading my Pixel: Download and install the Android SDK Platform-Tools package Download and install Google's USB drivers for your phone Make sure your phone is fully updated Enable Developer Options and turn on USB Debugging and OEM Unlocking Download a factory image for your device for whatever version of Android you want. (The most recent image might not be the optimal choice. Also, don't use an OTA image.) Use a Command Prompt or Terminal to boot your device into its fastboot mode, and then unlock the bootloader Use the factory image's "flash-all" command to begin the downgrade Lock your device's bootloader when done It seems so simple in hindsight, right?

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