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Taking screenshots of your phone is so easy, everyone can do it. Making a video of your phone is a bit harder. Here's how to record your phone's screen when you need to show someone what's happening on your phone's screen. You can come in handy when you want to make a video of a game you're playing, show someone how to perform a task on their phone, or document something weird your phone is doing. As of Lollipop, recording your screen on Android got a lot easier. To get started, you'll need a screen recorder app. There's no shortage of apps for recording your screen on Android, but so far the best one I've found is A-Z Screen Recorder. It doesn't require root, has no limit on recording length, doesn't add watermarks, and it's ad-free. Not a bad deal. Once you've downloaded it, follow these steps:Launch the A-Z Screen Recorder app from your app drawer.You'll see an overlay with four buttons appear. Tap the gear icon to tweak video recording settings including recording resolution, frame rate, and bit rate. When you're done, press Back to return to the home screen.Open the app you or navigate to the screen you want to record.Tap the red camera shutter icon in the A-Z overlay. The video will begin recording. Use your phone like normal until you're ready to stop recording.When you're finished, pull down the notification shade. In the A-Z notification you can either pause or stop recording.Once you're finished, you should end up with a video like this one:Obviously, we can't record the screen before we start recording (insert your own Inception bwam), but you can see in the video above how ending the recording works.Once you're done, tap the image icon in the overlay to view your recordings. You can also tap the magic wand icon on one of your videos to make edits, including the following:Trim or cut the video: You can clip off the beginning or end of the video, or cut out sections in the middle. These features require the Pro version which costs \$3.Crop video: If you want to focus on a smaller portion of the video, you can use an external plugin to crop the frame down.Convert to GIF: Another Pro feature, you can convert your video to a GIF format directly within the app.Replace audio: You can add your own soundtrack on top of the video, in place of the audio from your phone itself.Of course, while it's nice to have the Pro features, none of them are strictly necessary. You can edit videos and create GIFs in plenty of other apps. Still, a \$3 donation is a small price to pay for the convenience. RT @Brights73956475: #energydrinks Do you think energy drinks should be sold to over 16 years old ? 27thSeptember, 2022 @dentalhealthorg To celebrate #InternationalDayofSignLanguage here is a brilliant video by @WelshAmbulance giving you ten questions... 23rdSeptember, 2022 @dentalhealthorg RT @startwellblham: Free oral hygiene products available in Boots to those in need. Simply ask for Jesse when in store and a member of... 23rdSeptember, 2022 @dentalhealthorg What is tethering? Besides the grounds for a giant debate about ethics (the kind that you can only find on the Internet) tethering, in this case, means to share the Internet connection from your phone with other devices. There are several ways to accomplish this -- connecting your phone to your computer via USB, setting up your phone as a wireless hotspot and router, and sharing a data stream over Bluetooth. All these connection types are built into Android, with native Bluetooth tethering new in Ice Cream Sandwich. Of course, different manufacturers can, and have, modified things so that these options are excluded -- at the behest of the carrier, of course. We'll talk more about why in a few minutes.Tethering itself is pretty easily done. USB tethering involves installing device drivers (Windows only) and plugging in your phone to a high-speed USB port on your computer, then using your computer's built-in connection manager to use the phone or tablet as a USB modem. Bluetooth tethering will need the phone paired with the computer, and the connection type set up correctly in your computer's Bluetooth settings. Wifi is the easiest way -- you just turn it on and connect as you would any other wireless hotspot.Except that many carriers, especially in the United States, have blocked tethering this way. You see, your carrier wants to charge you a premium to use your data plan from any device besides your phone. Nobody likes it, but it's in the terms you agreed to when you signed up. They have all sorts of ways to block tethering on their end, and they are pretty diligent about it. Android hackers and developers also have found ways to work around these blocks, and it's a big cat and mouse game. An inside source with one the the biggest cellular carriers in the world has specifically told me that if your usage pattern draws suspicion, there is no current method that can't be detected by you carrier, including the newer VPN methods. If you do it a lot, without paying the extra fees associated with it, you'll get caught.We're not going to judge anyone, and a few of us here at Android Central think charging extra for tethering is silly -- especially with data caps. Just know what may happen before you start so you don't get caught unaware.Previously on Android A to Z: What is sideloading? Find more in the AndroidDictionaryMore from the Android Dictionary[block-views:article_lister_bespoke-block_13] The IMEI (International Mobile Equipment Identity) number is a unique set of 15 digits used on GSM phones to identify them. Because the SIM card is associated with the user and can be swapped from phone to phone, a method is needed to keep track of the hardware itself, and that's why the IMEI was developed. Math nerds will enjoy the way they are calculated -- the first 14 digits are decided by the GSM association, and the final check digit is computed using what's called the Luhn Formula -- crazy base-8 math that mere mortals like most of us don't understand, nor want to understand. You can see the IMEI of your Android phone by looking in settings > About phone if you're curious. (Or on the box if you still have it. Or under the battery or on the phone itself.What is this number used for? That's the real question, isn't it. Like the MEID number on CDMA phones (think Sprint and Verizon), the IMEI is used for network control. It's not very common, but your mobile operator can block a phone based on it's IMEI in cases where it's been reported stolen or someone didn't pay the bill. Because it's not easy to change the IMEI of your phone (and maybe even illegal -- check your local laws) it's also used to keep track of phones that were involved in criminal activity, and the UK in particular has a handy database of phones used for these purposes. The IMEI number is also used to specify a phone for wiretapping by federal governments worldwide.On a lighter note, Android apps can also use your IMEI number. The app will declare that it has access to your personal information, and the IMEI can be used to keep track of the device in a remote database. This sounds pretty scary, but it's an easy way (though not necessarily the best way) for app developers to keep a settings database online for your phone, in their app. Let's say you mark a bunch of favorites in a wallpaper app. Those favorites are kept in a small database file online, and when you reconnect to the app it reads your IMEI number to find your preferences. Not an ideal method, but it's easy.One last thing -- now that we know a little more about IMEI numbers, they will soon be changing to IMEISV numbers. The use-case scenarios are the same, but the data structure and method of calculation is different. An IMEISV gets rid of the check digit (and its complicated Luhn formulated calculation) in favor of two digits used for software version numbering. Like everything else in the mobile space, network identification changes rapidly. Check out the complete Android Dictionary[block-views:article_lister_bespoke-block_13] What is GSM? When it comes to Android devices, especially for us here in the U.S., there are two major differentiators that really have nothing to do with Android and everything to do with the carrier you plan on using the device on. When you're talking about a mobile device, you're either talking about a GSM device, or a CDMA device. GSM stands for Global System for Mobile Communications and is the network standard for much of the world. Of the four major carriers here in the United States, T-Mobile and AT&T use GSM technology. In Europe, you'll be hard-pressed to find something other than GSM. In Asia, you'll still find some CDMA carriers. A major advantage, at least from an end-user perspective, of GSM is the ability to easily swap devices, thanks to the SIM card. That's the little card (like what you see in the picture above) that contains are information that allows you to connect to a network, and it also can contain contact information. Pop the card into a new phone, and your phone number and contacts come with you.There are a couple caveats to that, of course. One is that the phone you're using has to have radios to work on specific frequencies. While T-Mobile and AT&T are both GSM carriers and share the same EDGE radio frequency, they use different 3G frequencies, and most devices released in the United States can only connect to one or the other. (That's not always the case though -- some phones, like the GSM Galaxy Nexus, have the ability to do both) Another hurdle is that carriers usually "lock" the device to only use their own SIM cards. That is, if you put an AT&T SIM card into a T-Mobile phone, it'll ask for an unlock code. You can purchase the codes online, or the carrier may give it to you for free, if your account is in good standing. Outside the U.S., this is less of an issue because phones often are purchased "unlocked," albeit at higher prices than you'll see here.But, wait. It gets more confusing. The new 4G LTE is a GSM standard. Therefore, Verizon and (soon) Sprint are using GSM technologies on their otherwise-CDMA phones. And both of those carriers have had "world phones" in the past -- traditional CDMA devices with GSM radios tucked in for use outside the United States.Is GSM preferred over CDMA? For some, it's just a personal thing. For others, it's a perceived technical thing (such as building penetration). For others, it's a business thing, like being able to more easily use your personal device overseas with a prepaid SIM. Previously on Android A to Z: What is fastboot? Find more in the Android DictionaryMore from the Android Dictionary[block-views:article_lister_bespoke-block_13]

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