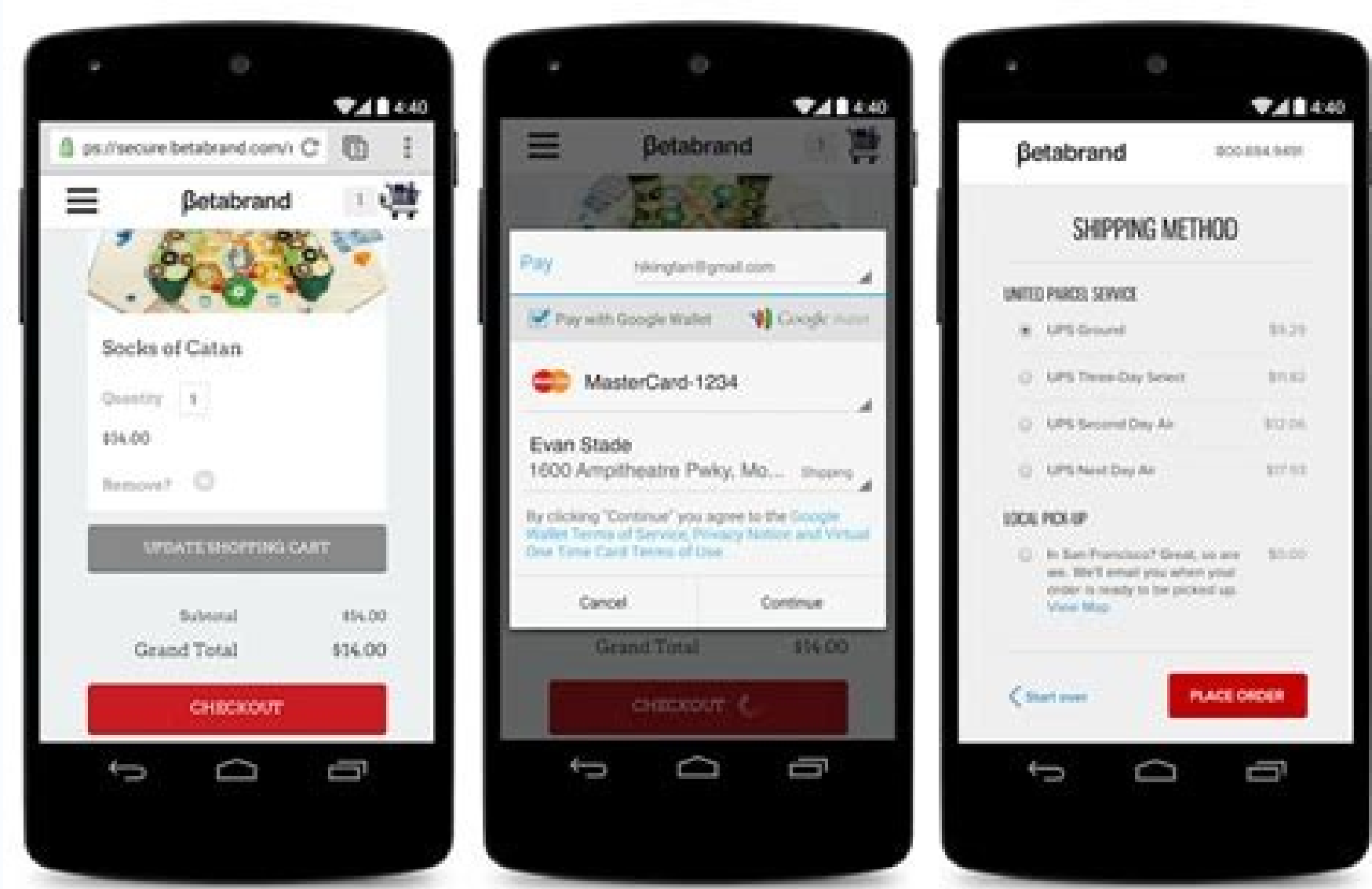
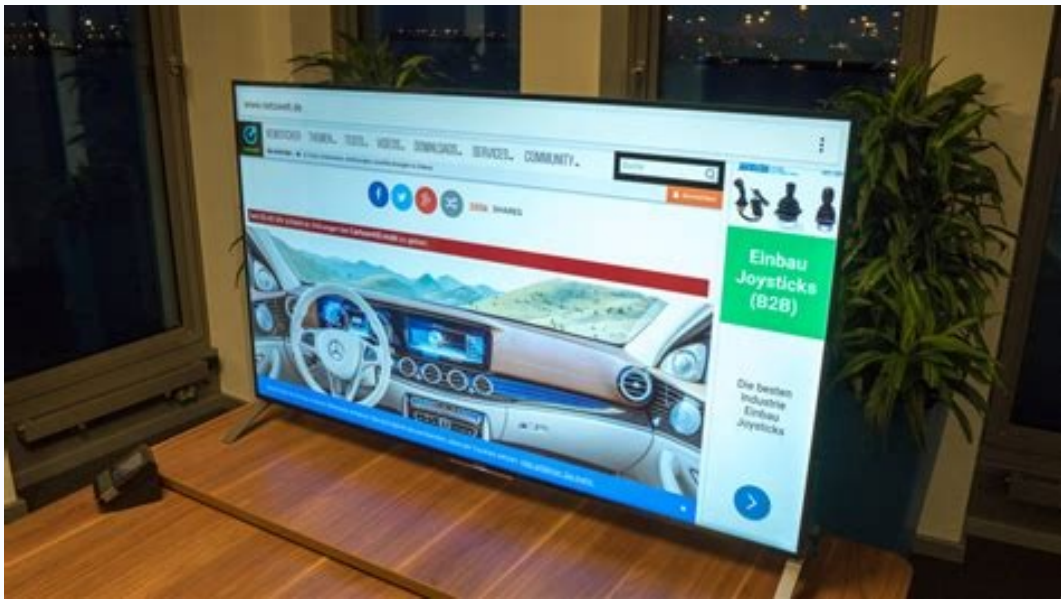
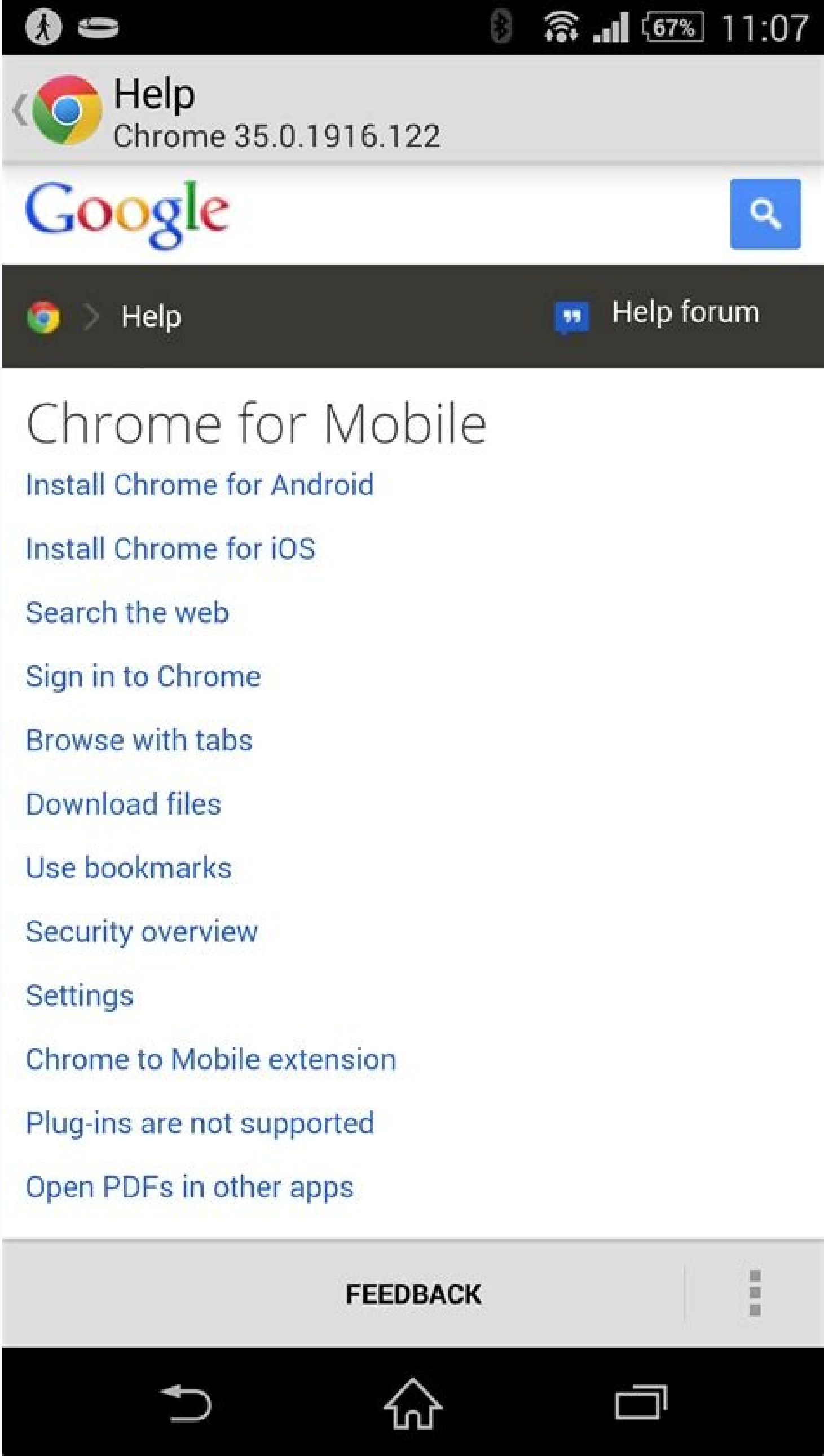


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Google TV is the company's platform for smart TVs and set-top boxes. But wait, didn't Google already have a TV platform called Android TV? And what about the Google TV app? Let's dive into another Google naming mess. First and foremost, Google TV is still Android TV. The simplest way to think about Google TV is to imagine Android TV with a fresh coat of paint. Google TV is similar in concept to overlays like Samsung's One UI. A Samsung Galaxy phone with One UI is still running Android. In the same way, devices with Google TV are still running Android TV underneath. The difference here is One UI is exclusive to Samsung devices, while Google TV will run on Android TV devices from all companies. Still Android TV underneath. The latest version of what we know as "Android TV" is based on Android 9, while Google TV is based on Android 10. Upgrading from Android TV to Google TV is no different than upgrading from Android 8 to Android 9. There's just an extra layer on top. Android TV Home Screen. Name aside, the biggest change with Google TV is the Home screen. Google completely revamped the Home screen experience to be based around recommendations. Movies and TV shows are pulled from the streaming services you subscribe to, Google TV Home Screen. The entire setup process for a new device has been revamped as well. Instead of taking place on the TV itself, set up now happens through the Google Home app. During the setup process, Google asks you to choose your streaming services so it can customize the Home screen recommendations. RELATED: How to Set Up Your Chromecast with Google TV Another key component of the Google TV Home screen is the "Watchlist." You can add movies and TV shows to your Watchlist from Google Search on your phone, tablet, or computer. They will then be easily accessible from the Google TV Home screen. The content is also available in the Google TV app. That's right, there's also a Google TV app. The Google Play Movies & TV app has been renamed to Google TV. It's still the place to rent and purchase movies and TV shows in Google's ecosystem, but now it also includes your streaming services and Watchlist. Search for anything and Google TV will tell you where it can be watched. RELATED: How to Get the Google TV UI on Android TV Devices Right Now The important thing to know is Google TV is still Android TV. It may look very different, but at the core they are the same. The Home screen is where most of the changes lie, and older devices will eventually get the same experience. If you've ever tried to download an app for sideloading on your Android phone, then you know how confusing it can be. Often there are several versions of the same app designed for various device specs—so how do you know which one is the right one? Understanding the Different File Versions If you're reading this, there's a good chance you're trying to download an app from APK Mirror, which is a legitimate hosting site for APKs that are available for free in the Play Store. This is an excellent option if the app you want is geo-restricted, not available for your device, or has an update that hasn't yet made it to your account. Though you may also need this information when downloading things from XDA Developers or other sources. RELATED: How to Sideload Apps on Android If that's where you find yourself, then trying to figure out the proper download for your phone can be a hassle. You won't have to worry about this if the app you're looking at only has one version, but some of apps have multiple versions available—for example, YouTube has 40 different variants. This is when you'll need to know what version is best for your phone. Generally, the details are broken down into three primary categories: Architecture: This is referring to the type of processor in your phone. Usually, the options will be arm, arm64, x86, and x86_64. ARM and x86 are for 32-bit processors, while arm64 and x86_64 are for 64-bit processors. We'll explain in more detail below. Android Version: This is the version of the Android OS your device is running. Screen DPI: DPI stands for "Dots Per Inch"—basically this is the pixel density of your phone's screen. For example, a six-inch full HD screen (1920×1080) has a DPI of ~367. Bump that resolution up to 2880×1440, and the DPI raises to ~537. Technically, the correct terminology when referring to pixel density should be PPI, or Pixels Per Inch. But since APK Mirror (and others) refers to this as DPI, we'll stick with the relative terminology. ARM vs. x86 While Android version and DPI are pretty straightforward, processor architecture is another story altogether. I'll do my best to break it down as simply as possible here. ARM: This is a mobile processor architecture first and foremost, and what the majority of phones run now. Qualcomm's Snapdragon, Samsung's Exynos, and MediaTek's mobile chips are all examples of ARM processors. Most modern chips are 64-bit, or ARM64. x86: This is the architecture specification for Intel chips. As dominant as Intel is in the computer market, these chips are far less common in Android handsets. x86_64 refers to 64-bit Intel chips. This information is especially important because x86 and ARM files are not cross compatible—you must use the version designed for your phone's specific architecture. Similarly, if your phone is running a 32-bit processor, the 64-bit APK won't work. 64-bit processors, however, are backwards compatible, so the 32-bit APK will work fine on a 64-bit processor. How to Find Your Device's Correct Information I know, I know, it's confusing. The good news is that there's an easy way to find out all of your device's information with an app called Droid Hardware Info. This is a free app in the Play Store, and will tell you essentially everything you need to know about your phone. Go ahead and give it and install and fire it up. We'll show you where to find exactly what you're looking for. The first tab you're going to want to look at is the "Device" tab, which is what the app opens on by default. There are two key pieces of info here: DPI and Android OS version. To find the DPI, look at the Software Density entry under the Display section. For the Android version, look at the OS version under the Device section. This explicitly displays the version number. For architecture info, slide over to the System tab and check out the CPU Architecture and Instruction Sets entries under the Processor tab. This one isn't quite as straightforward as the others since it doesn't explicitly say "arm64" or similar, so you'll have to read between the lines a bit. First off, if you see "64" in the architecture name, you can pretty much guarantee it's a 64-bit device. Easy enough. To figure out if it's ARM or x86, you'll look at the Instruction Set section—again, you're just looking for the basic info here, like the letters "arm." On my Pixel 2 XL (the above screenshots), for example, it's pretty clear that it's an ARM64 device. The Nexus 5, however, isn't quite as clear—we can see that it's ARM, but it doesn't explicitly show it as a 32-bit processor. In this case, we can safely assume it's a 32-bit chip because it doesn't specify the 64-bit architecture. Choosing Which File to Download With that in mind, let's go back to our YouTube example above. We're going to look at the many versions of YouTube on APK Mirror and find exactly which download applies to my Pixel 2 XL. With the device info in hand, we know it's running a 64-bit ARM processor, has a DPI of 560, and is running Android 8.1. It's easy to match the processor type and Android version—arm64 and Android 5.0+. But there's no specific option for 560dpi. So, we have two main options to choose from: the highest available DPI—in this case, 480, or "nodpi." In this case, I recommend going with the "nodpi" variant, because it contains all the resources available to cover the gamut of DPIs out there. So why not choose this one regardless? Because of the file size—since it contains resources to work on essentially any DPI, it's a much larger file. If you can find the one that matches your device's DPI perfectly, always go with that. Otherwise, you can also choose one that's slightly higher and be OK. In our test case, however, I'm not convinced that the 480 DPI version will look as good as the nodpi download since the phone is 560 DPI. In that case, the larger file size is worth the tradeoff. Learning your device's ins and outs is pretty simple. And fortunately once you figure this info out once you shouldn't have to worry about it again until you get a new phone. Android updates its operating system regularly to include new features, fix glitches, and make your Android device run more smoothly. The newest version is Android 10, and it offers some great features you'll want to get your hands on. Installing the new OS is not too difficult. Before you install it, you have to make sure your phone is compatible with it and able to receive the latest update, which we can help you with. Then, we'll give you some advice about getting the update. Make sure you have the right phone Julian Chokkattu/Digital Trends Unfortunately, not every Android phone is going to be eligible for the Android 10 update. If your device is over 2 years old, has already received two major Android OS updates, or is a lower-end budget device, you might not be seeing Android 10 at all. We've collected rumors for each of the manufacturers in our Android 10 updates post, so you can check there for the latest news on a variety of devices. However, there are some devices which are a given. All of Google's Pixel phones have already received the update, while the latest flagship phones—like the Samsung Galaxy Note 10 range and Huawei's P30 range—are also highly likely to get the update. You can also safely assume any phone that took part in the Android 10 beta is likely to receive the update. The Android 10 beta program was the largest in Android's history, with an amazing 25 devices from 13 manufacturers taking part. Here's the list of phones that supported the Android 10 beta: Asus ZenFone 5Z Essential Phone Huawei Mate 20 Pro LG G8 ThinQ Nokia 8.1 OnePlus 7 Pro OnePlus 7 OnePlus 6T Oppo Reno Realme 3 Pro Sony Xperia XZ3 Tecno Spark 3 Pro Vivo X27 Vivo Nex S Vivo Nex A Xiaomi Mi 9 Xiaomi Mi Mix 3 5G Google Pixel 3a Google Pixel 3a XL Google Pixel 3 Google Pixel 3 XL Google Pixel 2 Google Pixel 2 XL Google Pixel Google Pixel XL Back up your data While the final Android 10 build won't be as risky as getting involved in a beta program, it's still a really good idea to backup your Android devices regularly and before committing to the upgrade. Make sure to back up your Android phone to your PC to make sure your precious data is as safe as houses. How to install Android 10 So your phone has been confirmed to be getting the Android 10 update—hurrah! Now what? Well, you may have to wait a while. Some manufacturers take a little while to push the update out, whether it's the speedier companies like Nokia, or the slowpokes of Samsung and LG. That usually comes down to how much work they have to do, and creating manufacturer UIs like Samsung's upcoming One UI 2.0 can take a significant amount of time. Thankfully, when your update is ready, it'll be pushed through to your phone and you'll be prompted to upgrade. You can either upgrade right then and there, or you can choose to have your phone install it at a later time when it's more convenient—you can even have it update overnight. If you're really, really excited about it (like us) then you can manually check to see if the update has come in. To do so, head to Settings > System > Advanced > System update > Check for update. If you're not using a stock Android phone, then your path to finding the updates section may be slightly different—you for instance on Samsung phones, you can access Software update directly from the Settings app—but it's almost always somewhere in your Settings. That's really all there is to updating to Android 10. Unsure of what's new in the operating system? Check out our Android 10 review Editors' Recommendations

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