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## Emulate android mobile on pc

The Android operating system is indisputably the largest, most successful operating system for mobile devices. Choose a smartphone at random and chances are that it will run Android. It also means that lots of applications are exclusive to this operating system and that it is a hot platform to develop for. An actual phone is not always the best place to work however. Some chat programs are more convenient on a computer keyboard than tapping a screen on a computer. There may also be an Android game you really want to play, but your phone just isn't up to it. Whatever your reason, there are many excellent Android emulators that allow you to do some pretty interesting things with what is essentially an Android virtual machine on your desktop. The three emulators that we highlight here are probably the most popular, but also the most refined. They are free and generally simple to use. So you are only a few clicks away from running an instance of Android on your desktop. BlueStacks App Player BlueStacks (the company) has been around since 2009 and has become one of the biggest names in desktop Android emulation. It's probably the first piece of software that comes to mind when most people think about running Android on a desktop. Nor is it an undeserved position. BlueStacks App Player is a mature piece of software with excellent performance. In fact, according to benchmarks for the latest version of BlueStacks, it's six times faster than even the fastest smartphone you can buy. This makes it an excellent choice for intense Android game titles. However, the player is not optimized for productivity software, although messengers and other similar lightweight apps are no problem. The main drawback of the software is that advertising and partner content is used to fund it. If you can look past a few ad pop ups, then this is one of the best Android gaming app players available today. You can get BlueStacks App Player at [www.bluestacks.com](http://www.bluestacks.com). Nox Player BlueStacks has some serious competition in the form of Nox Player. The biggest selling point for Nox is the fact that there are no ads and it is actually free. It's also a much more customizable and flexible app player, but of course that comes at the expense of simplicity. Like BlueStacks, nox is aimed at people who want to play Android games on their computers. It allows you to fine-tune emulator performance so you can get large frame rates when you need it and give your computer some space to run other apps as needed. Because both of these options are free to download and use, it's easy to compare the performance and customization options for both players for yourself. You can get Nox Player at [www.nox-player.com](http://www.nox-player.com). Android Studio While Nox Player and BlueStacks App Player are shamelessly aimed at people who want to play Android games on a PC, Android Studio is all business. This is the leading, Google-approved development tool for people who want to make Android Android OK, to be quite honest it's not really correct to call this an Android emulator. Instead, this integrated development tool includes a sophisticated emulator designed specifically for testing the app you're making. The purpose of Android Studio Emulator is not to simply run Android apps. It's actually simulating different real Android devices out in the wild. So you as a developer don't actually have to buy a wheelbarrow full of expensive phones to make sure your app will work on them. Clearly Android Studio is not aimed at the general public, but if you have dreamed of making and selling your own app to the largest mobile platform in the world, there are no other games in town. You can get Android Studio at [developer.android.com/studio](http://developer.android.com/studio). The Emulated Life We have come a long way since the early days of Android emulation. From software that was glitchy and slow, to an experience that is in many ways superior to any phone running Android. Whether you're an avid mobile gamer looking to get an edge or a budding software developer looking for your big break, there's an emulator out there that will give you exactly what you're looking for. These three leading titles are literally just the tip of the iceberg. Enjoy! There are a lot of valid reasons why someone wants to run Android emulators on their PC. App developers may try to test their application before sending it out. Gamers may want to use a mouse and keyboard on their game. Maybe you just want it there to get it. In any case, Android emulation on PC is possible and it is much easier than it used to be. Some old favorites either left the room or become useless (Andy, AmiduOS, and Leapdroid), but everything else here should work okay for most people. Here are the best Android emulators for PC and Mac.It is also worth noting that Windows can allow Android apps directly in Windows 10 starting in 2021. This can mean great things for the Android emulator market. NoxPhoenix OSPrimeOSRemix OS PlayerXamarinYouWaveBuild your own The three most important uses for Android emulatorsThere are three main applications for emulators. The first is the most common and it is for gaming. Gamers can use emulators on their computers to make some games easier to play. They do not have to rely on the battery life of their devices and the existence of macros and other tricks help the process. In most cases, these little tricks are not illegal (in most games), so no one really has a problem with it. The best Android emulators for gaming include LDPlayer, BlueStacks, MeMu, KoPlayer, and Nox.The other most common use case is development. Android app and game developers like to test apps and games on as many devices as possible before launch. Usually the Android Studio emulator is fine for this kind of work. However, Xamarin and Genymotion are excellent for this type of use as well. The last main type is This is not nearly as common because Chromebooks are cheaper and better to use Android apps Android apps something other than a phone, and most productivity tools are across platforms. Any gaming emulator acts as a productivity emulator to an extent. But those with hyper specific use cases and little knowledge can try ARChon and Bliss. Still, we recommend going the Chromebook route if you want to run Android apps in a laptop or computer environment. It's better that way. Finally, a bit of a disclaimer. At this point, no emulators run the latest versions of Android except those that are made for developers. Fortunately, most apps and games still work on older versions of Android, so this shouldn't be a big deal. But most emulators right now run somewhere between Android 7.0 Nougat and Android 9.0 Pie. PROMOTION! LDPlayerPrice: FreeLDPlayer is an Android emulator focused on gaming performance. Running Android Nougat 7.1, it has the usual range of gamer-oriented features including good keyboard mapping control, multi-instance, macros, high FPS, and graphic support. This is one of the few emulators in the list that get active updates to improve compatibility. It supports a wide range of games including Garena Free Fire, Among Us, Clash of Clans, and many others. In the latest versions, LDPlayer has optimized the performance of League of Legends: Wild Rift, providing preset keymapping for various Champions and other custom features. Besides that, LDPlayer is also a well rounded emulator for its use. By TikTok, Instagram, WhatsApp, etc. Android Studio's emulatorPrice: FreeAndroid Studio is the default development console for Android. It comes with a lot of tools to help developers create apps and games specifically for Android. As it turns out, there's also a built-in emulator that you can use to test your app or game. The setup is pretty complicated and it can take a long time. Thus, it is not one we would recommend for consumer level use. However, developers can simply use this tool as their emulator to test their apps. It also supports Kotlin, whose developers want to try it. It's too much of a pain for non-developer use because it takes so long to create, but it works wonderfully for developers. DOWNLOAD FROM ANDROID DEVELOPERS WEBSITE! ARChonPrice: FreeARChon is not a traditional emulator. You install it as a Google Chrome extension. Then, Chrome allows you to run Android apps and games (albeit with limited support). Getting started is not an easy emulator. You will need to install things for Chrome. From there, you need to catch up with APKs and load them in. As an additional rub, you may need to use a tool to change the APK to make it compatible. There are many more steps to make this work than most other Android emulators for PC. On the plus side, though, it works with any operating system that can run an instance of Chrome (Mac OS, Linux, Windows. We are attached to the official GitHub, where you can find detailed instructions for its use. Bliss OSPrice: Free / Optional donationsBliss is something slightly differently. It acts as an Android emulator for PC via virtual machine. But it can also just flatly run on your computer via a USB stick. The boot-from-USB option is definitely a power user option and is not recommended for less intense use cases. As a VM installation, the process is easy but tedious if you've never made your own virtual machine before. The USB installation method is even more complicated, but it lets your computer actually run Android built-in from startup. This makes Bliss a super unique emulator if you can make it through the steps to the end. Of course, it only really runs well if your system is compatible, so be prepared with a backup of your current operating system. The system runs Android Oreo and it is among the newer versions of Android offered on an emulator. You can also find more info on this on its XDA-Developers thread here. BlueStacksPrice: Free/\$2 per monthBlueStacks is the most mainstream of all Android emulators. There are several reasons for this. For starters, it's compatible with Windows and Mac. It was also one of the first that worked really well, still getting regular updates. The emulator is aimed at mobile gamers. There is a stigma with the BlueStacks because it can feel a bit bloated at times. BlueStacks 4 (launched in 2018) aimed to solve it with mixed results. It also includes key mapping and settings for many games installed. That should help make things a lot easier. It's one of the heaviest emulators on the list. But it also has most features for better or worse. BlueStacks also made MSI App Player, another excellent emulator that some believe works better than vanilla BlueStacks. You can try either one, they are both by BlueStacks.DOWNLOAD FROM BLUESTACKS! GameLoopPrice: FreeGameLoop, formerly known as Tencent Gaming Buddy, is an Android emulator for gamers. In fact, it's good enough that Tencent calls it the official emulator for its games, including Call of Duty: Mobile and PUBG Mobile. Of course, it has other games apart from Tencent's, although its collection isn't as big as it could be. The emulator downloaded and installed fine and the games we tested ran fine. This one is not good for productivity or developmental testing. But if you have an itch for mobile FPS gaming along with some titles, this is actually a pretty decent gaming emulator, and it boasts a good collection of newer titles. Plus, the keyboard control and performance is good. GenymotionPrice: Free with paid optionsThis Android emulator is mostly for developers. It allows you to test your apps on a variety of devices without owning them. You can configure the emulator for a variety of devices with different versions of Android to suit your needs. For example, you can run a Nexus One with Android 4.2 or a Nexus 6 with Android 6.0. You can easily switch between units at will. It's not good for consumer use, but Genymotion offers their services for personal use. It is most is its availability on both your desktop computer and the cloud. Those without powerful computers can make Genymotion servers do all the work for them. DOWNLOAD FROM GENYMOTION! MEmuPrice: FreeMEmu is another of the up and coming Android emulators that seems to do pretty well with gamers. One of its biggest features is support for both AMD and Intel chipsets. Most work on AMD processors, but it's nice to see developers specifically paying attention to AMD's platform. In addition, it supports Android Jelly Bean, Kit Kat and Lollipop. You can even run multiple instances at once for multiple games or test features. It targets gamers much like BlueStacks and similar emulators. But it is also quite useful as a productivity tool as well. Its last update was in mid-November 2019, and that updated added smart keymapping along with the usual performance improvements and bug fixes. NoxPrice: FreeNox is another Android emulator for PC for gamers. It includes the usual things like key mapping with the keyboard, actual controller support, and even the ability to enter-card gesture control. For example, you can assign the feature to swipe right to an arrow key and use it in a game without hardware controller support. It's a lot of fun and seems to work pretty well most of the time. It is also completely free and in active development. The demo video below is pretty old and it definitely ran better than on my laptop. Phoenix OSPrice: FreePhoenix OS is one of the newer Android emulators for PC. Like most these days, it boasts a gamer experience. But it also boasts a desktop-like experience, so it actually works pretty well for productivity as well. It has Google Play Services, although updating these services can be a bit of a pain at times. This means you get all apps and games in the Google Play Store. Phoenix OS also runs Android 7.1, which is relatively modern for an Android emulator. You can download the emulator from its official website and its forums are placed on XDA-Developers.PrimeOSPrice: FreePrimeOS is a bit of a standout in the Android emulator space. It's not actually an emulator. You install this as a partition on your computer and it starts up running native Android. It's a gamer-focused Android experience, although you can totally use this for productivity if you really want to. PrimeOS includes a gaming center, mouse and keyboard support, and access to most Android apps and games. To be honest, it almost runs like ChromeOS minus all Chrome parts. You can multitask, watch video content, or play games as you like. We haven't tested this one in depth yet as it's new in 2019 from an Indian start-up. We will update the article if we have noticed anything peculiar about it. Remix OS PlayerPrice: FreeRemix OS Player by Jide is one of the newer Android emulators for PC (relatively speaking). It runs Android and it is still relatively new compared to many of the others on the list. Den Den the process is pretty simple and use it also fairly easily. It's mostly aimed at gamers. There are a few gamer specific features along with a customizable toolbar. It boasts features like running multiple games at once. That said, it's a pretty clean emulator, so it's still completely usable as a productivity tool. The site seems to be down and we are relatively confident remix OS Player is not in active development anymore. It should be okay for another year or two before it starts to feel really old. We replace it when we find a good 15. DOWNLOAD FROM SOURCEFORGE! XamarinPrice: Free/Enterprise optionsXamarin is an IDE similar to Android Studio. The difference is that it can be connected to things like Microsoft Visual Studio for an even larger development environment (for good or ill). Also, like Android Studio, this comes with a built-in emulator for app or game testing. If it wasn't immediately visible, we only recommend this to developers. The setup is simply too boring for regular consumer use. Xamarin's emulator is not as strong as anything like Genymotion, but it will get the job done if you intend to use this and it is also configurable for your needs. It is free and you can unsubscribe at any time. Businesses and larger teams may have to negotiate a payment plan. YouWavePrice: Free / \$29.99YouWave is one of the older Android emulators for PC. It's been around for a long time. Its last update was in 2016, though. That makes it pretty topical. The free version uses Ice Cream Sandwich. Forking out \$29.99 will get you lollipop version. We had not experienced any major problems with either. The installation process was easy enough. It does not have any game specific features, but it will still play games. This makes it good for easy gaming and productivity. We haven't seen a meaningful update in quite a long time, though, so even its Lollipop version is woefully outdated. We do not recommend premium version, but the free version works nicely for those who want an older emulator running older Android.Build your ownPrice: Free (usually)As it turns out, you can build your own emulator. Here's how it works in a nutshell. You need to download VirtualBox (the link above). You will then need to download an image from Android-x86.org. From there, it's just a matter of finding one of the many guides online and following the steps. This is easily one of the more difficult methods, but still not quite as boring or difficult as creating an entire IDE like Android Studio or Xamarin. We do not recommend that you try without a tutorial and a little prior knowledge. It won't work well, it will be buggy, and unless you are a coder, it will be hard to fix. Still, it will be yours to customize as you please, and who knows, maybe you will do and release an emulator that will adorn this list one day. DOWNLOAD VIRTUALBOX HERE! If we missed any of the best Android emulators for PC, tell us about them in the comments! You can also click here to check out our latest Android Android and game lists! Here's what happened to some old classics from the list: list:

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