
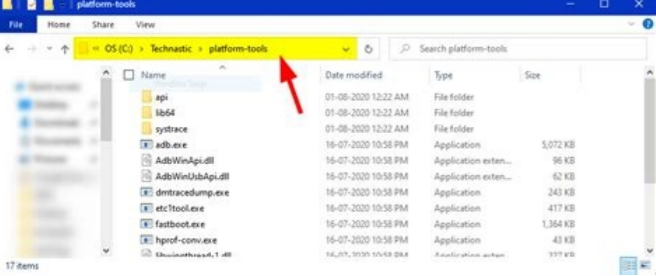
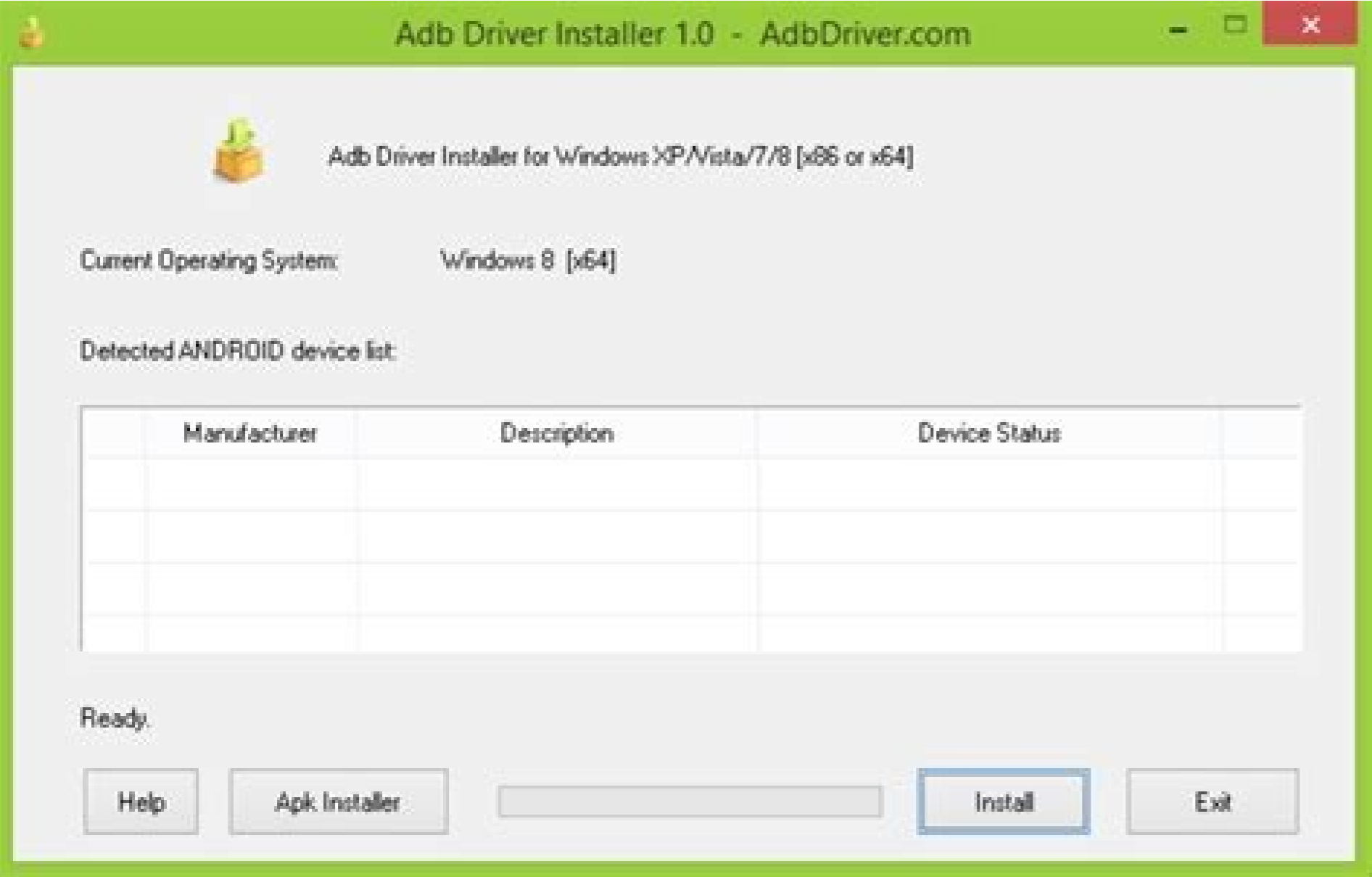


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# Android adb start application



To do this, assuming you have proper nextFocus attributes in your inputs, we can send a TAB\_EVENT to the device to switch between inputs. It would look like this if we combine all of these, we will have the following one liner that will automatically type the credentials for our testing account. If you have captured the ENTER key event to start login, we can even use input keyevent 66 to press Enter, and start login with zero manual tap. Personally, I make an alias for repeated form filling in my shell config because it reduces time for me during manual tests. Let's take a look into this scenario where I would need to type user1 and password1. Example Login We can input text onto the username or password fields with the following command. If you run the command in the terminal, you will see that it's not exactly right. As a next step, take a look into ADB Documentation for even more detailed explanations. Feel free to let me know your adb tips & tricks, I'm all ears! If your device is showing up after adb devices, then we can proceed. If you want to go one step further, we can setup in a way USB cable is obsolete. When you run your app, the computer install the debug apk with adb install and launch the app with adb am start (am stands for activity manager more on that belows). A full command that includes tapping login button would be as follows: With tap instead of key event Screenshots and video record Another common task is taking screenshots and recording video. If this is your first time connecting through adb, you might also need to authorize your PC in your Android device which should show up with a pop-up dialog. See if your device name pops up. It should show up like this. If it doesn't, it could either be your PC not recognizing your device (especially on Windows where you will need a driver) or USB Debugging has not been enabled. You can browse these options here. That's because we haven't shift the focus of the text input yet. If it works, then we can continue ahead to explore some of its usefulness. Setting up Physical device Debugging If you're using a physical device, you will need to enable USB debugging in the device. However, I prefer transferring file through adb since it saves me the hassle of having to connect with USB. If we want to transfer from my PC to the device, we can utilize adb push command. For example, if I want to push a document into device, I can run Reversibly, We can execute adb pull for transferring from device to PC. With adb, you don't need to use cables, emails, AirDroid or any other tools for you to transfer to/from your device again. Automating login adb can also be used to automate filling forms when you're doing manual testing. You can find all the possible input event codes here and if you scroll down, you will see KEYCODE\_TAB is set to 61. We can remove this need of third party apps by testing this function through the use of adb. Plus, it looks like magic in presentations and demos when you see a small command like testAccountLogin being executed and everything just works. I have said that the above example assumed that you have proper nextFocus attributes in your inputs. For the rest (and for MacOS as well if you prefer manual) you can follow these steps: Download platform-tools here Unzip it somewhere you want to keep it (preferably ~\Android\platform-tools) Then in your shell config (~/.bashrc, ~/.zshrc etc.) Add the following lines (For Windows, you might need to add the path inside System variables) - We will have to reload the shell (close and open terminal) afterwards. Then try running adb again. Tap on Wireless Debugging and it will show you a similar screen as follows: Tap on "Pair device with pairing code and you will see a popup similar to the one below: Go to terminal and run adb pair \$DEVICE\_IP\_AND\_PORT \$PAIRING\_CODE. To make it simple, in Android, each app has an activity or multiple activities that hosts the UI that the user can see. For MacOS, running brew install android-platform-tools should be okay. And for Linux and Windows, we can manually find the file and copy paste it onto our computer. Do note that there are limitation to this approach

such as you cannot rotate the screen during recording and that audio won't be captured. Testing DeepLinks Deep links are one of those few things that we have to click on manually, you have to click on the links in the links in the links in the links. The OS knows which app can handle which file, i.e, which action.-d : destination specify two parameters, first is our deep link url, and the second one is the app we want to view this deeplink on. We can then execute adb pull /sdcard/our\_screencap.png to pull the screenshot into our PC.For video recording, we can executeWhen we're done recording, we can press Ctrl+C (or Command+C on MacOS) to stop the recording. But there's more to adb than that meets the eyes, in fact, some of the commands can help your day-to-day activities.Installing ADBFirst thing first, try running adb in your terminal to make sure it's installed on your system. There's two ways, the first one involveRun adb shell getevent 1 in the terminal to log the input eventsManually press your input fieldCheck if there's ABS\_MT\_POSITION\_X and ABS\_MT\_POSITION\_Y in the terminalCopy the value (they should be in hexadecimal)Convert the values into decimal valueRun adb shell input tap \$DECIMAL\_X \$DECIMAL\_Y to see if it's click on the input fieldThis involves some complex steps, so, I prefer to use more straightforward way.Open Developer OptionsEnable Input > Pointer OptionsCheck if you can see numbers at the top of the screenHold your finger or put the cursor over the input fieldCopy the x, y value (usually at top left corner of the screen)Run adb shell input tap \$dx \$dy to see if it's click on the input fieldIn our example, I can also use tap command to do the same thingThis works for anything on the screen, including buttons. No worries, we can still use input tap \$X\_VALUE \$Y\_VALUE to tap the screen. For the first one, replace with the link you want to test, and for the second, you can enter your app's package name.If you run that command, the OS should launch your app. If you see something along the line of command not found, that means adb is not installed yet. These are useful when you want to report an issue and want to show the replication steps clearly. Activity Manager knows which apps has which activities and we can launch specific screen/activity through the activity manager.-W means wait for the launch to be completed.-a android.intent.action.VIEW is where we specify the action that we want to execute. Photo by Anna Claire Schellenberg on UnsplashIf you're developing Android apps, you might often wonder how does our PC communicate with the Android devices when we debug. In Android, we have predefined actions that the OS understand and the OS can use this information to route the action to the corresponding apps. Well, the answer is through the Android Debug Bridge, adb for short. How do we automate switching between the inputs? password1 is being appended after the end of user1. And it should connect your phone.Push & Pull filesIf you ever been on a Mac, you would be familiar with Android File Transfer. Similar to above, we can also run adb pull to pull the file onto our development PC after recording. Some devices has different ways to enable Developer Options, so Google for your device if the common step doesn't work. If you ever open a file and wonder where all of these apps are coming from in the popup, then the answer is through this OS feature. After that,Connect your device to PC with USBRun adb tcpip 5555 to make it listen to port 5555.Run adb shell netcfg or adb shell ifconfig to see your Android device's IPDisconnect USBRun adb connect \$DEVICE\_IP:5555 to connect to your device wirelesslyMake sure to run adb usb after as leaving it open in the (especially public) network is dangerousOn Android 11 and above, Android now has a function to make wireless debugging easier where a device can pair wirelessly with pairing code or QR code without the need of plugging into the PC for the first time. For key event, we have to use input keyevent \$KEY EVNET\_CODE. First, enable Developer Options by going into System => About, and tap Build Number seven times. Afterwards, go into Developer Options and enable "USB Debugging".Then, plug your device into your PC and execute adb devices in the terminal. We have to switch it from username input to password input. adb allows you to send input commands to the device. If the app can handle the deep link, it will receive the deeplink, and now the app is responsible for dissecting the deep link and manage it.Knowing these adb commands helped a lot for me and I hope this helps you in your development as well. Don't worry, you can revoke the access in Developer Options later. First, OS will first ask the app if it can handle this type of deep link. But what if you're testing for a third-party app and the app doesn't really has proper nextFocus? Let's start with screenshot first.For example, we can run adb shell screencap /sdcard/our\_screencap.png. You can enable Wireless ADB Debugging in Developer Options. As mentioned in this documentation, you can run the following commandTo break this command down,am means activity manager. Additionally, we can provide options such as resolution, bitrate, time etc. These inputs could be either just tapping, typing text or sending a key event like ENTER, TAB etc.

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