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The development of Android begins with Android SDK (Software Development Kit). Although there are many different programming languages and many IDEs (Integrated Development Environments) that you can use to build an application, SDK is permanent. Read next: Java tutorial for beginners SDK provides a selection of tools needed to create Android apps or ensure the process goes as smoothly as possible. Whether you're creating an app with Java, Kotlin or C, you need an SDK to make it work on your Android device and access the unique OS features. You'll also be able to use the emulator to test the apps you've created, control your device, and do a lot of other things. These days, Android SDK also comes complete with Android Studio, an integrated development environment where work gets done, and many of the tools are now best available or managed. You can download the SDK yourself, however, if that's your preference. While there are many different programming languages and plenty of IDEs you can use to create the app, SDK is a permanent one, all you really need to know is that you need an Android SDK. Setting up the SDK should be the first Android development tutorial you go through (note that you'll also need a Java Development Kit kit). But it's still a little more than that, and using all the development tools to the fullest and knowing exactly how the SDK works will lead to improved applications. Android SDK The Android SDK anatomy can be broken down into several components. These include: Platform-tools Build-tools SDK-tools The Android Refrigh bridge (ADB) Android Emulator Presumably the most important parts of this package are in SDKtools. You'll need these tools, no matter what version of Android you're targeting. This is what APK will actually create - turning your Java program into an Android app that can be launched on your phone. These include a range of build tools, debugging tools, and image tools. An example is DDMS, which is what allows us to use the Android Device Monitor to check the status of the Android device. Build tools were once classified under the same title as Platform tools, but have since been disconnected so they can be updated separately. As the name implies, they are also needed to create apps for Android. This includes a zipalign tool, for example, that optimizes the application to use minimal memory when running before creating the final APK, and an apksigner that signs APK (surprise!) for follow-up. Platform tools are more specific for the version that you want to focus on. It is usually best to install the latest platform tools that will be installed by default. Once you first install, though, you have to keep your platform-tools constantly updated. Tools need to be compatible backwards, which means you can still be able to Old versions of Android. Read Next: Anatomy of the app: Introduction to the lifecycle of Android Debug Bridge (ADB) is a program that allows you to communicate with any Android device. It relies on platform tools to understand the Android version that is used on this device and therefore it is included in the platform tool package. Adb can be used to access the shell of tools such as logcat, to request a device ID, or even to install apps. The Android emulator is what allows you to test and monitor applications on your PC without having to have the device available. To use this, you'll also get an image of an Android system designed to work on PC hardware. You'll use the Android virtual device manager to choose which version of Android you want to emulate, along with the device's specifications (screen size, performance, etc.). You should also check out our guide to installing Android SDK as it goes over what each component does in more detail. I also recommend this resource on the build process, which will help put the SDK in a bit more context. Related - How to incorporate developer options Using Android SDK In short, many of the tools included in the SDK include testing, debugging and packaging apps for Android. They provide a kind of bridge between Android Studio and a physical device or emulator so that your app can be properly packaged and then tested as you develop. For the most part, you can leave the SDK alone: Android Studio will recommend the necessary upgrades, and it will call for the necessary components when you hit Run or Build APK. However, some of the tools are also directly available to be used for things like an SDK update, or directly monitoring and communicating with an Android device. Using SDK Manager While Android Studio, usually let you know when you need to update something, you can also manage SDK updates manually through the manager. You'll find this in Android Studio if you switch to tools - Android - SDK Manager. You'll see there are three tabs here for SDK platforms, SDK Tools, and SDK Update Sites. If you follow along with an Android development tutorial, then you can sometimes get targeted here in order to make sure that specific components are up to date. Using AVD Manager You will also find an AVD manager under the tools - Android - AVD Manager. This allows you to create your own emulators. You will choose the size of the device and some other specifications, and you will be asked to download the desired image of the x86 system if it is not yet installed. With Android Device Monitor The Android Device Monitor DDMS and can be found under - you guessed - Tools - Android - DDMS. This works with either an emulator or a connected device and will go a little deeper in monitoring how your Android device and app behave. Using Using Abruing ADB is a little different. To do this, you will need to find an Android SDK installation folder and go to the platform tool catalog. In Windows, hold the shift and press to the right anywhere in the folder to open the command line. On mac, just open the terminal from Launchpad (usually found in another folder). Now you can use multiple commands. For example, if you're inocracing adb-devices, you'll get a list of Android devices that are connected with their devices. Let the Adb install (options) package-name and you can remotely install the APK. A list of ADB teams can be found here. Access to documentation Looking at a specific tutorial on Android development? You can find a whole sub-directed SDK folder called Docs, and this will give you access to useful information. For the most part though, you better visit it developer.android.com place. There was a time when Android SDK would also be packed with a selection of useful sample projects. Today this is no longer the case, but you can find them instead by opening Android Studio and navigating the file - New - Import Sample. Using SDK self While Android SDK and Android Studio are closely connected, you don't always want to use them together. You can use another IDE (Integrated Development Environment), for example, if you want to streamline the process of creating a 3D game (in this case you can use Unity or Unreal), or if you are interested in a cross-platform mobile development (in this case you can use Xamarin). Either way, you'll need to show the chosen IDE where the SDK is, usually by making a path somewhere. You can also find the location of Android SDK in Android Studio, in case you ever need to move it, or just for your own link. Just go to the file - Project structure. You'll also find the location of JDK and Android NDK. You chose the SDK location when you installed it. If you left this option by default though, then there is a chance that it may be in the AppData-Local catalog. Keep in mind that this folder is hidden on Windows by default, so you may find it hard to find it. NDK (Native Development Kit) allows you to create apps in native languages such as C and C#. This gives you access to certain libraries and can help squeeze a little more performance out of the device - making it useful for game development, among other things. NDK can be downloaded through SDK Manager and you can find out more about it here. Related: Android game SDK: What it is and how to use it in your apps As mentioned, if it's just the SDK you're interested in, then you can download it yourself by visiting the download page and then choose to include a sdkmanager. This will allow you to update the SDK through the command line. Have ways to access an AVD manager without Android Studio. But for the vast majority of users, it makes a lot more sense to install a complete set and enjoy the GUI and other amenities - even if you're going to use a different IDE for development. And that's really good news: Android development is now easier than ever before, thanks to the leaps and boundaries that Google has made with Android Studio. There was a time when things were much more complicated. There has never been a better time to start developing Android! Java is one of the most sought-after programming languages in the world and one of the two official programming languages used in Android development (the other is Kotlin). Developers familiar with Java have a high level of work and are able to build a wide range of different applications, games and tools. In this Java beginner tutorial, you'll take your first steps to become one of these developers! We'll go through everything you need to know to get started, and help you create your first basic app. What is Java? Java is an object-oriented programming language developed by Sun Microsystems in the 1990s (later acquired by Oracle). Object-oriented refers to how Java code is structured: in modular sections called classes that work together to provide a consistent experience. We'll discuss this later, but suffice it to say that it leads to a universal and organized code that is easy to edit and repurpose. Java is influenced by C and C#, so it has a lot in common with these languages (and C). One of the great advantages of Java is that it is an independent platform. This means that the code you write on one machine can be easily run on another. This is called the principle of write once, run anywhere (although in practice it is not always so easy!). There are three things you need to run and use Java: JDK - Java Development Kit The JRE - Java Runtime Environment The JVM - Java Virtual Machine The Java Virtual Machine ensures that your Java applications have access to the minimum resources they need to run. It's thanks to JVM that Java code works so easily on platforms. The Java execution environment provides a container for these items and code to run. JDK is a compiler that interprets and executes the code itself. JDK also contains the developer tools needed to write a Java code (as the name implies!). The good news is that developers should only have concerns about downloading JDK - as it comes packed with two other components. How to get started with Java programming If you're planning on developing Java applications on your desktop, you'll need to download and install JDK. You get the latest version of JDK directly from Oracle. Once you have installed this, your computer will have to understand and run the Java code. However, you will still need an extra piece of software in order to actually write the code. This is the Integrated Development Environment or IDE: the interface used by developers to enter their code and call JDK. When developing for Android, you will use Android Studio IDE. This not only serves as an interface for your Java code (or Kotlin), but also serves as a bridge to access the Android code from SDK. For more information, check out our guide to developing Android for beginners. For the purposes of this tutorial, Java may be easier to write the code directly into the Java compiler application. You can download them for Android and iOS, or even find web apps that work in your browser. These tools provide everything you need in one place and allow you to start testing the code. I recommend compilejava.net. How easy to learn Java programming? If you're new to Java development, you may understandably have a little fear. How easy is it to learn Java? This question is somewhat subjective, but I would personally rate Java as being on a somewhat trickier end of the spectrum. Although it is easier than C and is often described as more user-friendly, it is certainly not as easy as options such as Python or BASIC that sit at the most convenient for beginners at the end of the spectrum. For absolute beginners who want the smoothest ride possible, I would recommend Python as an easier starting point. Also, compared to Java, compared to Java, it's a little easier, although they're very similar. Read also: Introduction to C- for Android beginners In the course, if you have a specific goal in mind - such as developing apps for Android - it's probably the easiest way to start with a language that's already supported by this platform. Java has its features, but it's certainly not impossible to know and will open up a lot of possibilities once you hack it. And because Java has so much in common with C and C#, you can move to these languages effortlessly. READ ALSO: I want to develop apps for Android - what languages should I learn? What is Java syntax? Before you dive into the meat of this Java beginner tutorial, it's worth

taking a moment to explore Java syntax. Java syntax refers to the way it is written. Java is very particular about this, and if you don't write things a certain way, then your code won't work! I actually wrote a whole article about Java syntax for Android development, but to summarize the basics: Most lines have to end in a colonial: The exception is the line that opens a new block of code. This should end with an open K bracket. Blocks of code code fragments that perform specific, separate tasks. The code inside the code block should be it's separate from the rest. Open blocks of code should be closed with the closing curly bracket i. Comments line preceded (If you click a run or compilation and you get an error, there is a high probability that this is because you missed from a semi-colon somewhere! You will never stop doing this and it will never stop annoying. Joy! With this aside, we can immerse ourselves in the Java tutorial proper! Basics java: your first Head program to compilejava.net, and you'll be greeted by an editor with a bunch of code already in it. (If you prefer to use a different IDE or app that's also good! Boilerplate is any code that is needed to run any program. The first line here identifies a class that is essentially a code module. Then we need a method in this class that is a small block of code that performs the task. Each java program should have a method called basic, as Java says where the program starts. You won't need to worry about the rest later. All we need to know for this Java tutorial right now is that the code we really want to run should be placed in curly brackets under the word core. Put the following statement here: System.out.print (Hello, world!); This statement will write the words Hello World! On the screen. Hit the compilation and perform and you'll be able to see it in action! (It's a tradition of programming to make your first program in any new language to say: Hello world! programmers are a strange bunch.) Congratulations! You just wrote your first java app! Introducing variables in JavaNow is time to embrace some of the more important java basics. Few things are more fundamental to programming than learning to use variables! The variable is, in fact, a container for some data. This means that you will choose a word that will represent the value of some kind. We also need to identify variables based on the type of data they will refer to. The three main types of variables that we're going to introduce in this java tutorial are whole numbers. Floats - Or floating variable points. They contain full numbers, which may include decimal signs. The floating point belongs to the decimal place. Strings - Strings contain alphabetical symbols and symbols. A typical use of a line would be storing someone's name or perhaps a sentence. Once we identify the variable, we can insert it into our code to change the output. For example: HelloWorld class - Public Static Void Core (String) - Line Title - Adam; Adam; Name); In this code example, we identified a line variable called the name. We did this using the type of String data and then the name of our variable and then the data. When you put something in an inverted comma in Java, it will be interpreted verbatim as a string. Now we print on the screen, as before, but this time replaced Hello, the world! With the name Hello. This shows the Hello line and then any value contained in the next line variable! The great thing about using variables is that they allow us to manipulate data so that our code can be conducted dynamically. By changing the name value, you can change the behavior of the program without changing any actual code! Conditional operators in Java tutorial More important Java basics, becomes coping with conditional statements. Conditional operators use blocks of code that only work under certain conditions. For example, we may grant special user privileges to the primary user of our app. That, by the way, is me. System.out.print If (name - Adam) - System.out.print (Special user privileges granted!); Start this code and you'll see that special permissions are granted. But if you change the meaning of the name to something else, the code won't work! This code uses a statement if. This checks whether the statement in the brackets is true. If so, the next block of code will work. Don't forget to indent your code and then close the block at the end! If the statement in the brackets is false, then the code will simply skip this section and continue from the closed brackets forward. Please note that we use two J marks when checking the data. The methods in Java tutorialOne are a simpler concept that we can enter in this java tutorial on how to use methods. This will give you a little more insight into how the java code is structured and what can be done with it. All we're going to do is take some of the code we've written and then put it in another method outside of the basic method: the HelloWorld public class - the public static emptiness of the core (String) - String name - Adam; System.out.print If (name - Adam) - GrantPermission (); static invalid grantPerissa () - System.out.print (Special user privileges granted!); We have created a new method on the line that begins static emptiness. This means that the method defines the function, not the property of the object, and that it does not return any data. You can more on that later! But everything we insert inside the next block of code will now work anytime we call the method method writing its name in our code: grantPermission(). The program will then complete this block of code and return to the point from which it remains. If we had written grantPermission () several times, the message Special User Privileges granted! It will appear several times! This is what makes methods such a fundamental basis of Java: they allow you to perform repetitive tasks without writing out the code over and over again! Transfer arguments in JavaWhat is even better about methods, though, is that they can receive and manipulate variables. We do this by passing variables into our methods like Strings. This is what the brackets after the name of the method are for. In the following example, I created a method that gets a line variable, and I called itCheck. I can then refer to nameCheck from this block of code, and its value will be equal to what I put in the curly braces when I called the method. For this Java tutorial, I passed the name of the method value and posted it a statement inside there. So we could check out a few names in a row without having to type the same code over and over again! Hopefully this gives you an idea of how powerful the methods can be! System.out.print checkUser (name); - Static Void CheckUser (String nameCheck) - if (nameCheck - Adam) - System.out.print (Special user privileges granted!); That's it for now! This brings us to the end of this Java tutorial. Hopefully now you have a good idea of how to learn Java. You can even write a few simple codes yourself: using variables and conditional operators, you can get Java to do some interesting things already! The next step is to understand object-oriented programming and classes. It's an insight that really gives Java and languages like this their power, but it can be a little tricky to wrap your head around at first! READ ALSO: What is object-oriented programming? The best place to learn more Java programming? Check out our amazing guide from Gary Sims that will guide you through the whole process and show you how to use these skills to create powerful Android apps. You can get 83% off the purchase if you are acting now! Another resource that offers excellent value is Ultimate Java Expert Certification Bundle. This extensive package contains 11 courses and 38 hours of expert video tutorials in all aspects of Java programming, and it's suitable for all levels of experience. The kit training kits collectively cost over \$2,000, but you can get lifetime access right now for as little as \$31. That's less than \$1 an hour of training! To check for myself, hit the widget below. Of course, there's a lot more to learn! Stay tuned for the next Java tutorial, and let us know how you'll get in Comments below. Other frequently asked questions: Are Java and Python similar? A: While these programming languages have similarities, Java is very different from Python. Python is a structure agnostic, meaning it can be written in a functional manner or object-oriented manner. Java is entered statically, while Python is dynamically introduced. There are also many syntax differences. In: Should I recognize Swift or Java? A: This largely depends on your intended use case. Swift to develop iOS and MacOS. What Java structure should you learn? Answer: Java framework is a pre-written code body that lets you do certain things with your own code, such as building web applications. The answer once again depends on what your goals are. A useful list of The Java framework can be found here. A: Can I study Java without any programming experience? A: If you've followed this Java tutorial without too much trouble, the answer is a resounding yes! It may take a bit of head scratching, but it's well worth the effort. Efforts. android studio tutorial for beginners javatpoint. android studio java tutorial for beginners 2019

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