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## Android app bundle max size

pictures of mr cup / fabien barral on unsplash when you build android applications, you will be in front of a myriad of different file formats and terminology. especially when you export the final version of your app, you will see two main output formats. in this article, we will compare android app bundle versus apk, which are composed by dex files. but what do all these acronyms mean? acronym that means before digging deeper into the themes, it is important to get the definition of each of the above mentioned formats: aab: android app bundleapk: android app packagedex: dalvik executable we begin to review this format as it is what is most known and was around for the longest time. as mentioned earlier, apk stands for android app package. an apk is basically a file that is ready to be installed on a user's device. apks have all the files and code of the app inside. you can think of it as a .zip file but with its particular extension. Just as you can find compressed files with extensions in .rar or .zip, you can have apk is mainly intended by the android platform, but other platforms could support it if they had the same underlying architecture as android does. pictures of charles deluvio on unsplash the apk is already signed with the certificate of the app, which is a file that identifies every application in the play store. this file must be kept by developers throughout the entire life of the app, as it is not possible to generate it again. aab, who stands for androidBundle, is a newer format for Android distribution. The official documentation of Android gives the following definition: "An Android App Bundle is a publishing format that includes all the codes and compiled resources of your app, and challenges APK generation and signing it to Google Play." These application packages are quite new — they were introduced in Google I/O 2018. They're about to be two years old. But since then, they have become the official format for publishing Android applications. Just like APK is an extension, AAB files also have the .aab extension. Android documentation provides an image that explains how AABs are composed. Android Documentation If you had an APK, you would only have the orange part of the app, which will have in itself all the goods, which means you can only have a package of them and no dynamic functionality. Asset packages are groups of files targeted to a group of devices. When using a traditional APK, the application will receive all the goods and just choose and use those that are necessary for that specific device. On the other hand, when using AAB, Play Store selects the goods that will be needed when the user downloads the app. These features are modules that may not be necessary for the first installation of the app. You can download them when the user asks to add that feature or download the app and then start downloading them in the background to give the user an advantage over using the app. To install dynamic functions, we havethat will be managed by the Play Core Library, which communicates directly to the Play Store. Android underlines several disadvantages of using APKs:Lower conversion rates Downloads slower Uninstallations Higher rates of lower update SizeThe first advantage is the reduction of the size. With asset packs and dynamic features, applications become, on average, 35% smaller. But some applications have achieved a decrease in size by about 50%. After the introduction of AABs, the maximum size of an application is 150 MB. Using an APK, you can easily exceed this requirement. Photo of Rob Hampson on native bookcases UnsplashUncompress For some reason, when you have an APK, the application gets a copy of all native libraries that are needed in a compressed format. After downloading, the device decompresses those libraries by creating a copy because it cannot use them without decompression. In the end, you'll have two copies of the library. When comparing Android App Bundle against APK, you will notice that AAB gets non-telete native libraries by default, which will help you avoid having two copies at the end. You could ask why the APK maintains both a copy of the compressed version and another for the uncompressed. This, as it identifies the above, is because the libraries are sometimes specific to the device. You may need another one for each device, which the Play Store can send to your device on the download time if you are providing an AAB. Both APK and AAB contain DEX files inside. Those files are the keycode. These files are Dalvik Executable because within the core of Android, there is something called Dalvik Virtual Machine. In simpler words, this VM runs the app code in Android to make them available. Punta Pro: Error with DEX files There is a common error in Android Studio when you build your project. This error is easy to solve, but it can be frustrating if you do not know what it is. When you try to run the app, you will receive a message like the following: It can't fit the required classes in a single dex file If you're also getting this error, go build.gradle(Module: app), and within default Config brackets, add the following line:multiDexEnabled trueAndroid Studio will require you to synchronize the project, as it does every time you make a change in Gradle files. Synchronize Gradle and run the app. As you can see, compare an Android Bundle App with an APK is not so complicated. The app packages have been around for almost two years, and are very useful to give users a better experience - so why not give them a try? I hope you add it to your next project. Until next time!

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