Block ads on android tv

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0	Ad blocking	
3	VPN	
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	Арря	
Div	e in deeper	
V	Donate	<u>э</u>
	App Settings	









Block ads on sony android tv. How to block youtube ads on android tv box. How to stop ads on android tv. How do i block ads on youtube android tv. How to block ads on youtube app android tv. Block ads on android tv box. Block ads on android tv youtube.

(Pocket-lint) - No one likes to be interrupted by annoying ads, but it has become a common occurrence on our phones. Most people know they can block ads on their computer or laptop, but our phones usually suffer from these things. Long gone are the days when you could install Ad Block Plus from the Play Store, Google no longer allows systemwide ad blocking. So how do you block ads? Fortunately, it's very easy and we've covered everything in this tutorial. But first, a few things need to be mentioned. It's important for content creators. Although they can be annoying, in some cases it's worth allowing ads to support content you like. We also focus on blocking ads in the browser. Note that these solutions do not block ads in other applications such as games. With that, let's move on to the guide. How to block ads in other applications such as games. people stick with it. However, you don't need to switch to another browser to block ads. Fortunately, Chrome has some useful built-in tools to help you with this. The only caveat is that Chrome doesn't block ads. Fortunately, Chrome has some useful built-in tools to help you with this. The only caveat is that Chrome doesn't block ads. Fortunately, Chrome has some useful built-in tools to help you with this. Click on the three dots in the upper right corner. Click on "Settings". Scroll down to "Site Settings" and select a page. Click "Advertise" and do the same. Chrome will now prevent most pop-ups from loading and intrusive ads. In a way, it's the best of both worlds, as it allows you to support the content you care about without suffering much. (Pocket Patch) - Nobody likes to be interrupted by annoying ads, but it has become commonplace on our phones usually suffer from it. Long gone are the days when you could install Ad Block Plus from the Play Store, Google no longer allows system-wide ad blockers. How do you block ads? Luckily, it's very easy and this guide has it all covered. But first, a few things should be mentioned. It's important for content creators. While they can be annoying, there are times when it's worth allowing ads to support the content you offer. Love. Also, we focus on blocking ads in the browser. So remember that these solutions do not block ads in other apps like games. With that said, let's dive into the guide. How to Block Popups and Annoying Ads in Chrome Chrome is the default browser on most Android phones and hence most people follow it. However, you don't have to switch to a different browser to block ads. Luckily, Chrome has some handy tools built in to help you with that. The only caveat is that Chrome doesn't block all ads, only pop-ups and ads that it finds intrusive or misleading. To enable the features: Pocket Clips Open Chrome on your Android phone. Click on the three dots in the top right. Click on "Settings". Scroll down to "Site Settings" and select it. Click on the ad and do the same. Chrome now prevents most pop-ups from loading and completely blocks ads on websites with misleading and intrusive advertising. In a way, it's the best of both worlds, as it allows you to support content you care about without horrible suffering. But what if you want to go ahead and block everything? Read more. How to block ads in different browsers If you're ready to ditch Chrome, there are plenty of browsers that offer more effective ad blocking options. Just keep in mind that if you use this, you won't be able to sync your history and bookmarks with Chrome on your desktop. Pocket-lint Our favorite option is Firefox, which lets you install add-ons that act as Chrome extensions on your desktop. UBlock Origin is a powerful free and open source ad blocker that can be easily added to Firefox for Android and will block almost anything. Another great and full-featured browser is Opera, which has a powerful ad blocker built in and even a free VPN. There's even a simple Adblock browser if you just want to block ads. How to block ads in other apps? As we mentioned earlier, Google removed ad-blocking apps from the Play Store a long time ago, but that doesn't mean you can't block ads elsewhere. You'll need to download these apps, which can be a little tricky if you've never done it before, but that doesn't mean the apps aren't trustworthy — it's just that Google isn't interested in you using them. Which is understandable given its business model. The Best iPhone Apps of 2022: The Complete Guide Maggie Tillman April 30, 2022 These are the absolute best iPhone apps to travel, reading, music, and more. Apps like AdGuard and AdLock are developed by well-known cybersecurity brands, so they should be completely safe to use. The downside is that they're subscription-based, so you'll have to pay a monthly fee after the trial period ends. Written by Luke Baker. Android Studio's Gradle build makes it easy to include external binaries or other library modules as dependencies in your build. Dependencies may be on your computerin the remote repository, and any transitive dependencies they declare are automatically included as well. This page describes how dependencies, see the Gradle plugin works and how to configure it. For more detailed conceptual guidance on Gradle dependencies, see the Gradle Dependency Management Guide. However, note that your Android project should only use the dependency configurations defined on this page. Note. Don't use dynamic version numbers like "com.android.tools.build:gradle:3.+" when specifying dependencies. Using this feature can result in unexpected version updates and difficulty resolving version differences. Dependency Types To add a dependency to your project, specify the dependency configuration, e.g. B. Implementation, in the dependencies: plugins { id 'com.android.application' } android { ... } dependencies { // library module implementation dependency (':mylibrary') // Depends on local binary implementation fileTree(dir: 'libs', include: ['*.jar']) // Dependencies { // Dependencies { // Dependencies { // Dependency on local library module implementation (project(":mylibrary")) // Dependency on local binary implementation (fileTree (mapOf("dir") on " libs", "include " to listOf("*.jar")))) // Dependency on remote binary implementation ("com.example.android:app-magic:12.3") } Each requires a different type of library dependency as follows: Dependency implementation of the local library module project(':mylibrary') Implementation(project(":mylibrary")) Explain e the conformance of the Android library module named "mylibrary" (this name must match the defined library module and packages the resulting compiled content into the application. local binary dependency implementation fileTree(dir: 'libs', include: ['*.jar']) implementation(fileTree(mapOf("dir" to "libs", include" to listOf("*.jar")))) Gradle declares dependencies on JAR files in your project's module_name/libs/ directory (because Gradle reads paths relative to build.gradle file). You can also specify individual files as follows: implementation files('libs/foo.jar', 'libs/bar.jar') Binary dependency implementation "com.example.android:app-magic:12.3" ("com.example.android:app-magic:12.3") This is actually short for: implementation "12.3" (group = "com.example.android:app-magic:12.3") This is actually short for: implementation "com.example.android:app-magic:12.3") This declares a dependency on the 12.3 version of the "app-magic" library in the namespace group " com.example.android". Note. Such remote epositories, where Gradle should look for the library doesn't already exist locally, Gradle will fetch it from the remote site when it's needed for a build (for example, when you click Sync project with Gradle files or when running a build). If you rely on an AGP dependency uses the API/implementation configuration internally, some artifacts may be removed from the build classpath and the build classpath may change Native dependencies Starting with the Android Gradle 4.0 plugin, native dependencies can also be imported as described in this document. Depending on the AAR that provides the native libraries, it will automatically make them available to the build system via externalNativeBuild. To have an accessyou must reference it from your code in your native build scripts. For more information, see the Using Local Dependencies section of this document. Dependency configurations (such as the implementation shown above). Each dependency configuration gives Gradle different instructions for using the dependency. This table describes all the configurations you can use for an Android Gradle plugin 3.0.0. Gradle's configuration behavior implementation adds the dependency to the compilation classpath and includes the dependency in the build output. However, when a module configures an implementation dependency, it tells Gradle that you don't want the modules at compile time. This means that the dependency is only available to other modules at runtime. compile (deprecated) can significantly reduce build time by reducing the number of modules the build system needs to recompile. For example, if an implementation dependency and the modules should use this configuration. The gradle api adds a dependency on compiling the classpath and creating the output. If a module has an API dependency, it tells Gradle that the modules so that it is available at runtime and compile time. This configuration works like compile (which is now deprecated), but use it carefully and only with dependencies that need to be temporarily exported to other upstream consumers. This is because when an API dependency at compile time. Therefore, a large number of API dependencies can significantly increase compilation time. Unless you plan to expose API dependencies to a separate module, library modules should use implementation dependency, but its presence at runtime is optional output). It's useful when you're building an Android module and need a compile-time dependency, but its presence at runtime is optional When using this setup, the library module needs to include a runtime condition to check if the dependency is available, then neatly modify its behavior to continue working even if not deployed. This helps to reduce the size of the final application by not adding non-critical transient dependencies. This configuration behaves exactly as stated (which is now deprecated). Note: You cannot use build-only configurations with AAR dependencies. runtimeOnly Gradle will only add a dependency to the build classpath. This setup behaves exactly like the apk (which is now deprecated). annotationProcessor To add a dependency on an annotation processor library, add it to the annotation processor class using the annotation processor configuration. This is because using this configuration improves build performance by separating the build's classpath from the annotation processor class using the annotation processor class using the annotation processor class using the build classpath from the annotation processor class using the build set of the annotation processor class using the build before a set of the annotation processor class using the build before a set of the build before a set which negatively affects build time (Gradle 5.0 and above ignores annotation processors found in the build's classpath). The Android Gradle plugin considers a dependency as an annotation processor if its JAR contains the following file: META-INF/services/javax.annotation.processor if its the classpath will cause a build error. Note. Kotlin projects should use capt to declare annotation processor dependencies. lintChecks Use this configuration to include lint checks that Gradle should run when building a project. Note. If you're using Android Gradle plugin 3.4.0 and later, this dependency configuration no longer includes thread checks in your Android library projects. To include the patch check dependencies in your AAR libraries, use the lintPublish configuration described below. lintPublish use this configuration in your AAR. Thus, projects that consume your AAR will also use these thread checks. If you previously used the lintChecks dependencies to use the lintChecks in your published AAR, you must migrate those dependencies to use the lintChecks dependencies to use the lintCheck checks from ':checks-to-publish' // into a lint.jar file and publishes it to your Android library. lintPublish project (':checks') // Compiles the collection checks from ":checks-to-publish'' // into a lint.jar file and publishes it to your Android library. lintPublish(project(":test-publish")) } The Gradle APK only adds a dependency to create the output for use at runtime. That is, it is not added to the compilation classpath. This configuration is deprecated (available in AGP 1.0-4.2). Compile Gradle adds the dependency to the compiler classpath and build output and exports the dependency to other modules. This configuration is deprecated (available in AGP 1.0-4.2). All of the above configuration is deprecated (available in AGP 1.0-4.2). All of the above configuration is deprecated (available in AGP 1.0-4.2). only on a specific build variant source set or test source set, you must capitalize the configuration name and precede it with the build variant or test source set, you must capitalize the configuration name and precede it with the build variant or test source set or test source set or test source set name. For example, to add an implementation dependency to only the "free" product variant (using a remote binary dependency), it would look like this: dependencies { freeImplementation dependency to only the "free" product variant (using a remote binary dependency), it would look like this: dependencies { freeImplementation dependency to only the "free" product variant (using a remote binary dependency), it would look like this: dependencies { freeImplementation dependency to only the "free" product variant (using a remote binary dependency), it would look like this: dependencies { freeImplementation dependency to only the "free" product variant (using a remote binary dependency), it would look like this: dependencies { freeImplementation dependency to only the "free" product variant (using a remote binary dependency), it would look like this: dependencies { freeImplementation dependency to only the "free" product variant (using a remote binary dependency), it would look like this: dependencies { freeImplementation dependency to only the "free" product variant (using a remote binary dependency), it would look like this: dependencies { freeImplementation dependency to only the "free" product variant (using a remote binary dependency), it would look like this: dependencies { freeImplementation dependency to only the "free" product variant (using a remote binary dependency), it would look like this: dependencies { freeImplementation dependency to only the "free" product variant (using a remote binary dependency to only the "free" product variant (using a remote binary dependency to only the "free" product variant (using a remote binary dependency to only the "free" product variant (using a remote binary dependency to 'com.google.firebase:firebase-ads:9.8.0' } However, if you want to add a dependencies { freeImplementation(" com. google.firebase-ads:9.8.0") } However, if you want to add a dependency for a variant that combines a product variant and a build type, you must initialize the config name in config block. The following example adds a runtimeOnly dependency (using a local binary dependency) to the freeDebug build variant. configurations { // Initializes the dependency configuration placeholder freeDebugRuntimeOnly fileTree(dir: 'libs', include: ['*.jar']) } // Initializes the freeDebugRuntimeOnly dependency configuration placeholder. val freeDebugRuntimeOnly with config. Create dependencies { // Add remote binary dependencies { // Add rem remote binary dependency for instrumented test APK only. androidTestImplementation ("junit:junit:4.12") // Adds a remote binary dependency for the instrumented test APK only. However, some configurations do not make sense in this situation. For example, since other modules cannot depend on AndroidTestApi configuration "androidTestApi" is deprecated and has been replaced by "androidTestImplementation". Adding annotation handlers When you add annotation handlers to the build classpath, you get an error message similar to the following: Error: Annotation-defining librariessors to the project by configuring a dependencies { // Adds the annotation-defining librariessors to the project by configuring a dependency with the annotation-defining libraries of a shown below: dependencies { // Adds the annotation-defining libraries a shown below: dependencies { // Adds the annotation-defining libraries a shown below: dependencies { // Adds the annotation-defining libraries a shown below: dependencies { // Adds the annotation-defining libraries a shown below: dependencies { // Adds the annotation-defining libraries a shown below: dependencies { // Adds the annotation-defining libraries a shown below: dependencies { // Adds the annotation-defining libraries a shown below: dependencies { // Adds the annotation-defining libraries a shown below: dependencies { // Adds the annotation-defining libraries a shown below: dependencies { // Adds the annotation-defining libraries a shown below: dependencies { // Adds the annotation-defining libraries a shown below: dependencies { // Adds the annotation-defining libraries a shown below: dependencies { // Adds the annotation-defining libraries a shown below: dependencies { // Adds the annotation-defining libraries a shown below: dependencies { // Adds the annotation-defining libraries a shown below: dependencies a shown below: dependencies a shown below: dependencies a shown below a shown to the build classpath only. compileOnly "com.google.dagger:dagge compileOnly("com.google.dagger:dagger to pass arguments to an annotation processor, you can do so using the AnnotationProcessorOptions module's build configuration block. For example, if you want to pass primitive data types as key-value pairs, you can use the argument property as shown below: android { ... javaCompileOptions { annotationProcessorOptions { argument "key1", "value1" argument "key2", "value2" } } } Android { ... defaultConfig { ... javaCompileOptions { argument + = mapOf ("key1" to "value2") } } } with the Android Gradle plugin version 3.2.0 or higheryou need to pass cpu arguments representing files or directories using the Gradle CommandLineArgumentProvider interface. Using the CommandLineArgumentProvider allows you or the author of the annotation processor to improve the correctness and performance of incremental pure assemblies and cached pure assemblies by applying incremental annotations of the assembly property type to each argument. For example, the following class implements CommandLineArgument to the processor. The example also uses the Groovy syntax and is included directly in the build.gradle file of the module. Note. Annotation processor authors typically provide this class or instructions for writing such a class. This is because each argument must specify a valid assembly property type annotation for it to work correctly. class MyArgsProvider Implements CommandLineArgumentProvider { // Annotation processor. @InputFiles // Using this annotation helps Gradle determine which part of the // file path to consider in current checks. @PathSensitive(PathSensitive(PathSensitive(PathSensitive) FileCollection inputDir = input outputDir = input outp plugin uses this method to pass arguments // to the annotation processor. @Override Iterable asArguments() { // Use the "-Akey[=value]" form to pass parameters to the Java compiler. ["-AinputDir=\${outputDir.singleFile.absolutePath}"] } android {...} class MyArgsProvider(// Mark each directory as input form to pass parameters to the Java compiler. ["-AinputDir=\${outputDir.singleFile.absolutePath}"] } or output for // @get:InputFiles annotation processor // Using this annotation will help Gradle determine which part of the file path // to considercurrent tests. @get:PathSensitivity.RELATIVE) val inputDir: FileCollection, @get:OutputDirectory val outputDir: FileCollection, @get:OutputDirectory val outputDirectory val outpu processor command line arguments. // The Android plugin uses this method to pass arguments to the // annotation processor. override fun asArguments(): Iterable { // Use the "-Akey[=value]" form to pass your options to the Java compiler. return listOf("-AinputDir=\${outputDir.absolutePath}") } android {...} After defining a class that implements CommandLineArgumentProvider, you must and instantiate it pass it to the android plugin using the annotationProcessorOptions.compileOptions { annotationProcessorOptions { // Creates a new MyArgsProvider object, specifies the input and // output paths of the constructor, and passes the // object to the Android plugin. CompilerArgumentProvider (files("input/path")) } } } } } // This is in your module's build.gradle file. android { defaultConfig javaCompileOptions { annotationProcessorOptions { // Creates a new MyArgsProvider object, specifies the input and // output paths of the constructor, and passes the // object to the Android plugin. CompilerArgumentProvider(MyArgsProvider(files("input/path"))) } } } To learn more about how the CommandLineArgumentProvider implementation helps improve build classpath that contain annotation processors that you don't need, you can disable error checking by adding the following to your build.gradle file. Note that the annotation processors that you add to the compileOptions { annotationProcessorOptions } } } } "false") } } If used Kotlin and kapt: android { ... kapt { includeCompileClasspath false } } processor class, you can enable annotation processors in assembly classpath by setting includeCompileClasspath to true. is deprecated and this setting will be removed in a future Android plugin update. Eliminating transitive dependencies and transitive dependencies (libraries that imported application libraries depend on). To exclude transitive dependencies that are no longer needed, you can use the Exclude keyword like this: implementation ("some-library") { exclude (group="com.example.imgtools", module="native") } dependencies from your tests, the code shown in the above example may not work properly. This is because the test configuration (like androidTestImplementation) extends the module's implementation. So in order to exclude transitive dependencies from your tests, you should do it at run time like below: android.testVariants.all { variant -> variant.getCompileConfiguration(). 'group: 'com.jakewharton.threetenabp', module = "threetenabp", module = "threetenabp") runtimeConfiguration.exclude(group = "com.jakewharton.threetenabp") } Note: You can still use the exclusive keyword in the dependencies that are specific to your test setup and not be included . in other configurations. Configuring Wear OS app dependencies for a Wear OS module is similar to any other module; That is, Wear OS modules only use the same dependency configurations as implement and build. Wear module has a dependency on the Wear module has a dependency on the Wear module. If you are building a simple app that depends on only one Wear module, where the module configures the same variants as the base module, you must specify the wearApp configuration in the base module's build.gradle file as shown below:dependencies { // If the main modules and app module file as shown below:dependencies { // If the main modules and app modules automatically links // variants of the main application module to the variants of the wear module and the wear module wear module and the wear mod variants. wearApp(project(":wearable")) } If you have multiple wear modules and want to specify a different wear module for each version of the app, you can do that using the FlavorWearApp configuration): dependencies { paidWearApp project(':wear1') project(':wear1') freeWearApp "(project(':wear1')) "freeWearApp"(project(':wear1')) "freeWearApp"(project(':wear1' Dependency Resolution Management { repositories for each project dependency. For example, if a dependency is available from both repository B, and you specify A first, Gradle will download the dependency from repository A. By default, new Android Studio projects specify the Google Maven repository and the moven central repository and the project as shown below: DependencyResolutionManagement { repository and the moven central repository and repositories { google() mavenCentral() } } DependencyResolutionManagement { repositoriesMode.FAIL ON PROJECT REPOS) repositories { google() mavenCentral() } Warning: 31 March 2021 The default JCenter repository is read-only. For more information, see Updating the JCenter Service. If you need something from a local repositoriesMode.set(RepositoriesMode.set(RepositoriesMode.set(RepositoriesMode.set(RepositoriesMode.FAIL ON PROJECT REPOS) repositories { google () mavenCentral() } } mavenLocal() } You can also declare specific Maven or Ivy repositories like this: } maven { url 'file://local/repo/'' } ivy { url } } dependencyResolutionManagement { repositoriesMode.set(RepositoriesMode.FAIL ON PROJECT REPOS) Repositories { maven(url = ") } } See the Gradle Repositories Guide for more information. Google Maven Repository The latest versions of the following Android libraries are available in the Google Maven Repository Index (see programmatic access below). To add one of these libraries to your build, add the Google Maven repository to your top-level build.gradle file: dependencyResolutionManagement { repositoriesMode.set(RepositoriesMode.FAIL ON PROJECT REPOS) repositories { google() // If you have a Gradle version lower than 4.1, instead you should use: // maven { // url ' // } // Alternative URL is " dl/android/ maven2 / '. } } repositoriesMode.set(RepositoriesMode.FAIL ON PROJECT_REPOS) repositories { google() // If you are using a version of Gradle earlier than 4.1, you should use: // maven instead { // url = "https :// maven instea Appcompat library looks like this: dependencies { implementation 'androidx.appcompat:1.2.0' } dependencies { implementation ("com.an droid.support:appcompat:1.2.0' } dependencies { implementation ("com.an droid.support:appcompat:1.2.0' } have to get from the offline repository. Programmatic access To access To access To access To access To access To access and versions libraries for each group at: For example, the libraries in the android. arch. lifecycle group are listed at maven.google.com/android/arch/lifecycle/group-index.xml. You can also download the POM and JAR files from maven.google.com/android/arch/lifecycle/compiler/1.0.0/compiler. - 1. 0.0 assists Offline Repository from SDK Manager For libraries not available from Google.com/android/arch/lifecycle/compiler/1.0.0/compiler. - 1. 0.0 assists Offline Repository from SDK Manager For libraries not available from Google.com/android/arch/lifecycle/compiler/1.0.0/compiler. - 1. 0.0 assists Offline Repository from SDK Manager For libraries not available from Google.com/android/arch/lifecycle/compiler. Mayen repository (usually older versions of libraries), download the Google Offline Repository package from SDK Manager. You can then add these libraries are stored in the android sdk/extras/ folder. The native AAR dependencies of the Android Gradle plugin may contain native dependencies that the Android Gradle plugin can use. AGP is also able to create AARs that expose local libraries to their consumers. Using Native Dependencies can be imported from AARs that are linked in the build.gradle file. Gradle will automatically make them available to your local build system, but your build system must be configured to use the imported libraries and headers. Since C/C++ dependencies are distributed as AARs, the following links to generic AARs may be useful: Creating an Android library for generic AARs may be useful: C Build Dependencies for information about adding dependencies. This document focuses on how to set up a native build system and assumes that you have already added a C/C++ dependencies. This document focuses on how to set up a native build system and assumes that you have already added a C/C++ dependencies. modules can provide native libraries for your application to use. Inside the AAR, the prefab directory contains the prefab dir a header. To use libraries, you need to know the package and module names. By convention, the package name will be the name of the C/C++ library, but this is not required. See the dependency documentation to see what names it uses. Build Configuration Android Gradle Plugin 4.0 Android Gradle Plugin 4.1 + Your Android Gradle Module must have build reatures { prefab = true } Further configure the version in the project's gradle.properties file: the default AGP version will suit your needs. You should only choose a different version if there is a bug that needs to be fixed or if you need a new feature. Dependencies imported from AAR are made available to CMake, so if your build changes this variable, be sure to attach it instead of assigning it. Each dependency makes the config file package available to your build. They are imported using the find package command. This command looks for configuration file package stat match the given package name and version, and provides the targets it defines to use in your build. For example, if your application defines a libapp so file and uses cURL, the CMakeLists.txt file should contain the following text: add library(app SHARED app.cpp) # Add these two lines. find package(curl REQUIRED CONFIGURATION) target link to libcurl.so will and libcurl.so will and libcurl.so will and libcurl.so will application. Publishing local libraries to AAR. The ability to create native AARs was first added in AGP 4.1. To export native libraries, add the following to the Android block in your library { headers "src/main/cpp/mylibrary/include" } myotherlibrary { headers "src/main/cpp/mylibrary/include" } cpp/myotherbibrary/include" } buildFeatures { prefabPublishing = true } prefabs { create("mylibrary") { headers = "src/main/cpp/myotherbibrary") { headers = "src/main/cpp/myotherbibrary"} { headers packaged into the AAR generated by your build, and each exported with headers from a specified directory to their dependencies are listed indicates their priority: the first library has a higher priority than the third, and so on. This order is important when combining features or manifest items from libraries into applications. For example, if your project declares: a dependency on LIB A and LIB B (in that order), and LIB (in t LIB C; and LIB D still has higher priority than LIB B because LIB A (which dependencies from different project sources/dependencies, see Merge multiple manifest files. Viewing Module Dependencies from different project sources/dependencies from different project sources/dependencies for more information on merging manifests from different project sources/dependencies for more information on merging manifests files. are called transient dependencies. Instead of manually declaring each transient dependencies that Gradle automatically compiles and adds them for you. Android pluginGradle provides a task that lists the dependencies that Gradle resolves for a given module. For each module, the report also includes dependencies grouped based on build variant, test source set, and classpath. Below is an example report of the app module runtime classpath in the debug build variant and the build classpath of its instrumented set of test sources. debugRuntimeClasspath ---- :mylibrary (variant: debug) +--- com.google.android.material:1.0.0@aar +--androidx.appcompat:appcompat:1.0.2 @ aar +--- androidx.constraintlayout:1.1.3@aar +--- androidx.recyclerview:recyclerview:1.0.0@aar +--- androidx.recyclerview:1.0.0@aar +--- androidx debugAndroidTestCompileClasspath - Compile dependencies +--- androidx.test:junit:1.1.0@aar +--- androidx.test.espresso:core:3.1.1@aar +--- androidx.test:runner:1.1.1@aar +--- androidx.test.espresso:core:3.1.1@aar +---- androidx.test.espresso:core:3.1.1@aar +---- androidx.test.espresso:core:3.1.1@aar +---- androidx.test.espresso:core:3.1.1@aar +---- androidx.test.espresso:core:3.1.1@aar +---- androidx.test.espresso:core:3.1.1@aar +---------------------AppName > Tasks > Android Dependencies. Once Gradle finishes the job, you should open a Run window to see the output. For more information on dependency Management in Gradle User Guide. Fixing Dependency Management in Gradle User Guide. dependencies to an application project, these direct and transitive dependencies can cause conflicts. The Android Gradle plugin tries to neatly resolve these conflicts, but some conflicts can cause compile-time or run-time errors. To find out which dependencies are causing errors, review the application's dependency tree and look for dependencies that appear more than once or have conflicting versions. If you cannot easily identify re-addiction, Use the Android Studio UI to find dependencies that contain a duplicate class as follows. Choose Navigation > Class from the menu bar. In the search dialog box that appears, make sure that "Include non-project items" is checked. Enter the class name shown in the build error. Check the results for class-related dependencies. The following sections describe the different types of dependency resolution errors you may encounter and how to resolve them. Fixing Duplicate Class appears more than once on the class appears appe Program type already exists com.example.MyClass This error typically occurs when one of the following conditions occurs: A binary dependency. For example, your application declares a direct dependency on library B, but library B, b in its binary form. To resolve this issue, remove the B library as a direct dependency. Your application has a local binary dependency on the same library. To resolve this issue, remove one of the binary dependency on the same library. runtime classpath and uses the result to determine which dependency versions to add to the compiler classpath. In other words, the runtime classpath defines the version numbers that Gradle needs to match dependencies in the app's

APK runtime classpath. The classpath hierarchy is shown in Figure 1. Figure 1. Figure 1. Figure 1. The version numbers of dependency version that appear on multiple classpaths must match according to this hierarchy. A conflict can arise when different versions of the same dependency appear in multiple classpaths, for example if yourcontains a dependency version that uses an implementation dependency configuration, and a library module contains another dependency version that uses a runtime only configuration. When resolving runtime and classpath dependencies at build time, Android Gradle 3.3.0 and later attempts to resolve some partial conflicts automatically. For example, if the runtime classpath contains library A version 2.0 and the build classpath contains library A version 1.0, the plugin will automatically update the build classpath dependency to version 2.0 of library A to avoid errors. However, if the runtime classpath contains a version 1.0 library and the build classpath contains a version 2.0 library, the plugin will not downgrade the build classpath to version 1.0 of the library and you will still receive an error message similar to the following: Inject the required dependency conflict com .example.library:some-lib:2.0 in the my-library project. The allowed versions of runtime classpath (2.0) are different. To resolve this issue, do one of the following: Inject the required dependency version into the library module as an API dependency. This means that only your library module declares the dependency, but the application module also has transient access to its API. Alternatively, you can declare the dependency in both modules, but you must ensure that each module uses the same version of the dependency. Consider setting the property project-wide to keep versions of each dependency consistent throughout the project. Applying Custom Build Logic This section contains additional topics that may be useful if you want to extend the Android Gradle plugin or write your own plugin. Publishing Variant Dependencies for Custom Logic A library may have functionality that other projects or subprojects may need. Publishing to a library is the process by which a library is made available to users. Libraries can control whichits consumers have access at compile time and at run time. There are two separate configurations that contain transitive dependencies for each classpath that consumers must use to use the library, as described below: variant_nameApiElements: This configuration contains transitive dependencies that are available to consumers at compile time. variant_nameRuntimeElements: This configuration contains temporary dependencies available to consumers at run time. To learn more about the relationship between the various configurations, go to the Java Library Plugin Configurations section. Custom Dependency Handling Strategies A project can depend on two different versions of the same library, which can cause dependency conflicts. For example, if your project depends on version 1 of module A and version 2 of module B, and module A transitions from version 3 of module B, a dependency version conflict occurs. To resolve this conflict, the Android Gradle plugin uses the following dependency graph, it defaults to the highest numbered version. However, this strategy may not always work as intended. To configure a dependency resolution strategy, use the following configurations to resolve specific variant dependencies required by a task: variant nameCompileClasspath: This configuration contains the resolution policy for a specific variant. variant nameRuntimeClasspath: This configuration contains the resolution policy for the runtime classpath of the specified variant. The Android Gradle plugin includes getters that can be used to access per-variant configuration, as shown in the example below: android { applicationVariants.all { variant -> // Return build configuration objects variant.getCompileConfiguration().resolutionStrategy { // Use the Gradle ResolutionStrategy API // to configuration objects of the runtime variant.variant.getRuntimeConfiguration().resolutionStrategy { ... } // Returns the configuration of the variant annotation processor. variant.getAnnotationProcessorConfiguration().resolutionStrategy { // Use the Gradle ResolutionStrategy API // to configuration objects for variant compilation. compileConfiguration objects for variant compilation objects for variant compilectionStrategy april // to configuration objects for variant compilectionStrategy april // to configuration.compileConfiguration objects for variant compilectionStrategy april // to configuration.compileConfigu the runtime variant. runtimeConfiguration.resolutionStrategy { ... } // Returns the configuration variant of the annotation processor Configuration variant of the annotation processor Configuration.resolutionStrategy { ... } } When building an application using AGP 4.0.0 and later, the plug-in contains metadata describing the dependencies of the libraries compiled into your application. When your app loads, the Play Console examines this metadata to alert you to known issues with the SDK and dependencies your app uses and, in some cases, provide feedback on how to fix those issues. The data is compressed, encrypted with Google Play's signing key, and stored in your published app's signature block. For a safe and pleasant user experience, we recommend keeping this dependency. However, if you do not want to share this information, you can opt out by including the following dependenciesInfo block in your module's build.gradle file: android { dependenciesInfo { // Disable dependency metadata when building an APK file. includeInApk = false // Disable dependency metadata when creating an Android app bundle. includeInBundle = false } } For more information on our policies and potential dependency issues, visit our support page on using third-party SDKs in your app. Appendix.