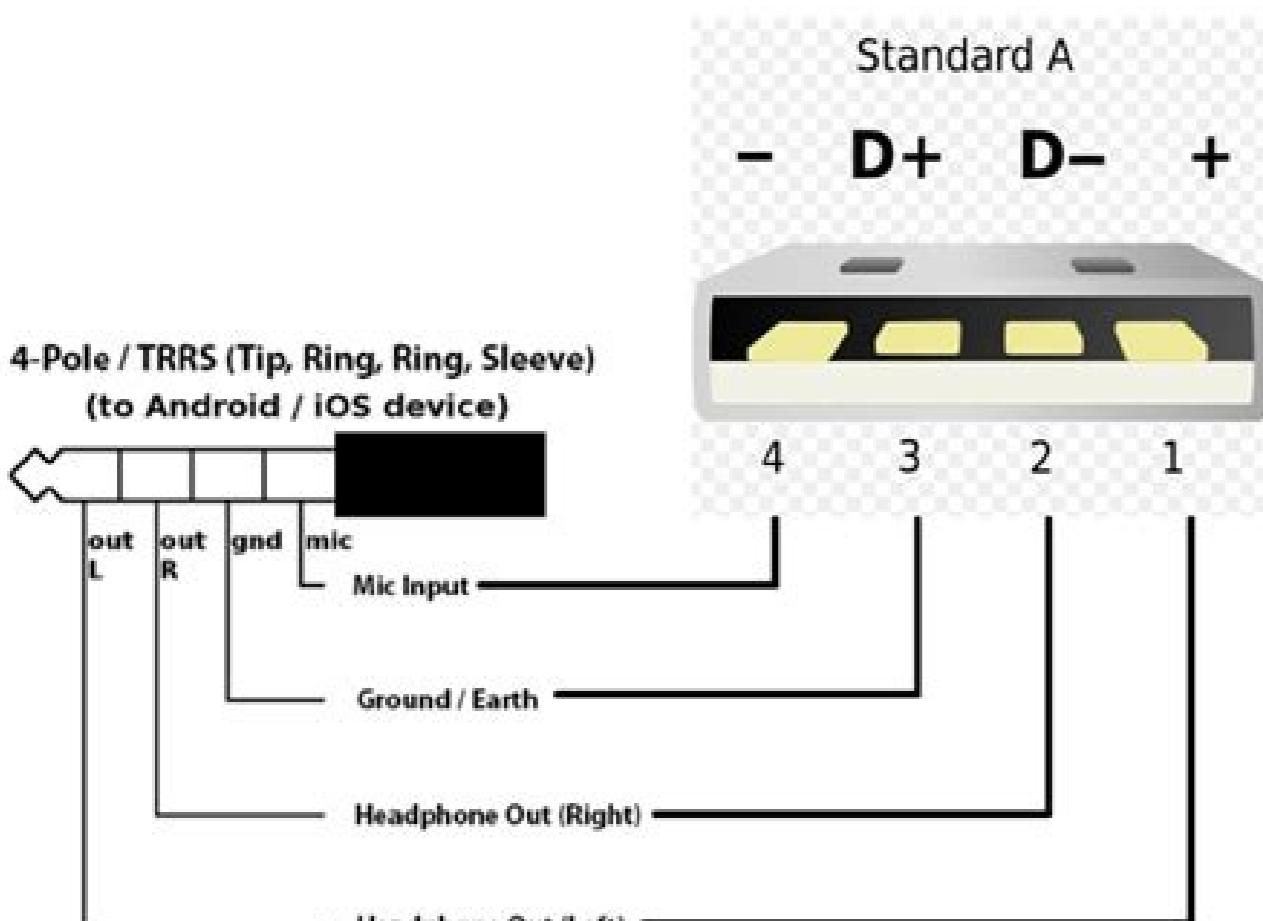
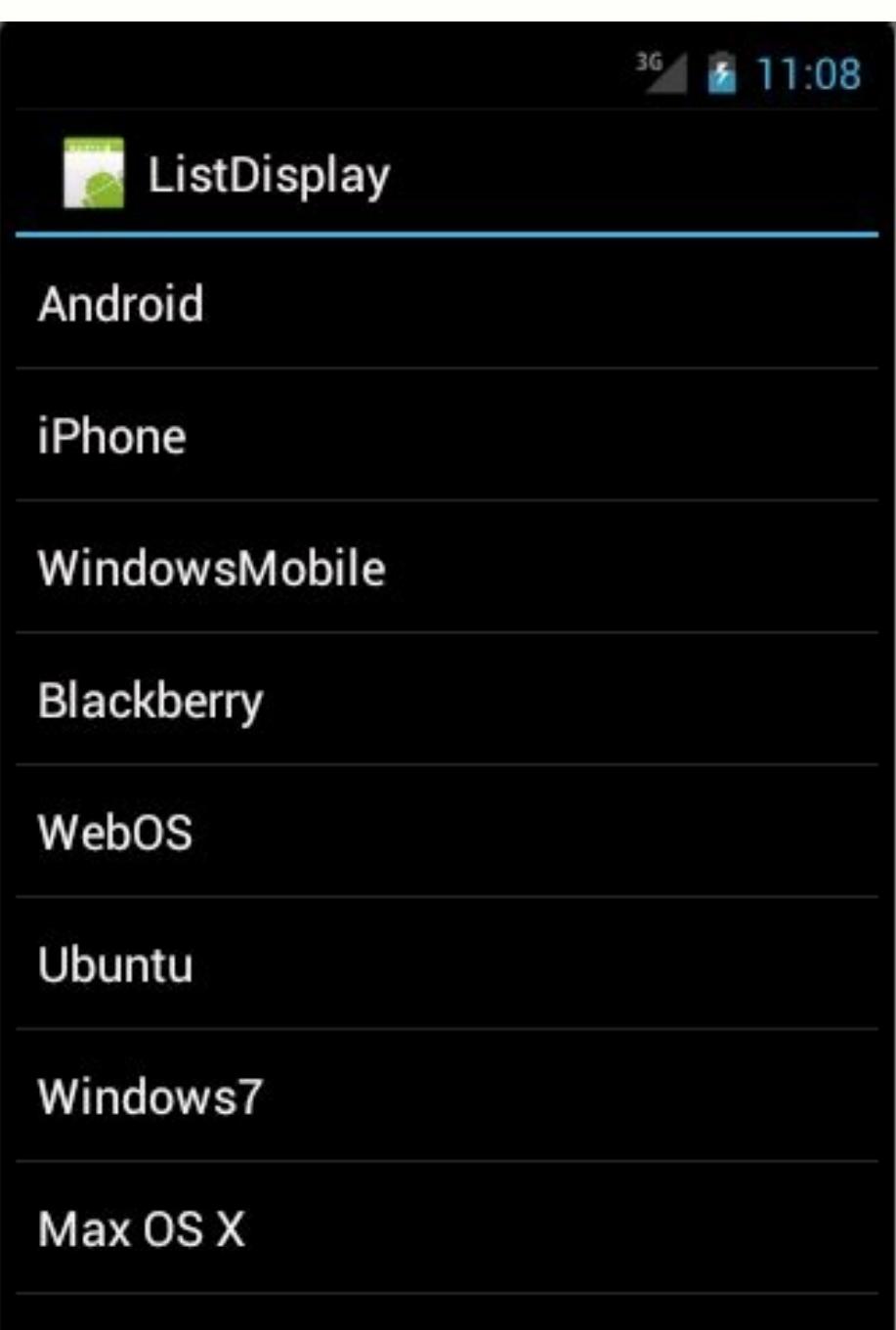
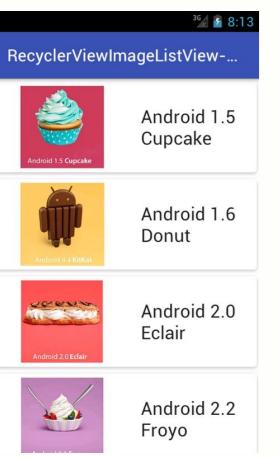


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Next

## Define adapter in android



What is adapter in android.

Because security enforcement happens at the process level, the code of any two packages cannot normally run in the same process, since they need to run as different Linux users. It is preferable to use an existing group, as this simplifies the permission UI shown to the user. Apps can expose their functionality to other apps by defining permissions which those other apps can request. However, you should carefully assess whether it is necessary for your app to do so. The knownSigner flag allows devices and apps to grant signature permissions to other apps without having to sign the apps at the time of device manufacturing and shipment. You can use the sharedUserId attribute in the AndroidManifest.xml's manifest tag of each package to have them assigned the same user ID. Any data stored by an app will be assigned that app's user ID, and not normally accessible to other packages. When your app does this, the system grants the permission to a requesting app if any signer in the requesting app's signing lineage, including the current signer, matches one of the digests that's declared with the permission in the knownCerts attribute. You can place a permission in the group by assigning the group name to the element's permissionGroup attribute. In most cases you will want to set this to a standard system group (listed in android.Manifest.permission\_group), but you can also define your own group with . Malicious apps may cause unexpected calls on your phone bill. Our convention is a two-sentence description: the first sentence describes the permission, and the second sentence warns the user of the type of things that can go wrong if an app is granted the permission. The element declares a namespace for a group of permissions that are defined in code. If a package declares a permission, the system does not permit the user to install other packages with the same permission name, unless those packages are signed with the same certificate as the first package. For more information about permissions, see the Permissions Overview. You must do this if the apps are not all signed with the same certificate. Custom permission recommendations Apps can define their own custom permissions and request custom permissions from other apps by defining elements. The element defines a label for a set of permissions—both those declared in the manifest with elements and those declared elsewhere. For more information about Android's security model, see Android Security Overview Defining and enforcing permissions To enforce your own permissions, you must first declare them in your AndroidManifest.xml using one or more elements. App signing All APKs must be signed with a certificate whose private key is held by their developer. Parts of the system are also separated into distinct identities. In most cases you should set this to a standard system group (listed in android.Manifest.permission\_group), although you can define a group yourself. The purpose of certificates in Android is to distinguish app authors. Grant signature permissions after device manufacturing time Starting in Android 12, the knownCerts attribute for signature-level permissions allows you to refer to the digests of known signing certificates at declaration time. They can also define permissions which are automatically made available to any other apps which are signed with the same certificate. This document describes how app developers can use the security features provided by Android to define their own permissions. When one of your apps makes a request of another of your apps, the second app can verify that both apps are signed with the same certificate before complying with the request. The label should be short; a few words describing the key piece of functionality the permission is protecting. Note: The system does not allow multiple packages to declare a permission with the same name, unless all the packages are signed with the same certificate. User IDs and file access At install time, Android gives each package a distinct Linux user ID. If you are designing a suite of apps that expose functionality to one another, try to design the apps so that each permission is defined only once. To avoid naming collisions, we recommend using reverse-domain-style naming for custom permissions, for example com.example.myapp.ENGAGE\_HYPERSPACE. Your app can declare the knownCerts attribute and use the knownSigner flag in the protectionLevel attribute for a given signature-level permission. On a different device, the same package may have a different UID; what matters is that each package has a distinct UID in a given device. This affects only how the permissions are grouped when presented to the user. The certificate does not need to be signed by a certificate authority; it is perfectly allowable, and typical, for Android apps to use self-signed certificates. The description should be a couple of sentences describing what the permission allows a holder to do. The protectionLevel attribute is required, telling the system how the user is to be informed of apps requiring the permission, or who is allowed to hold that permission, as described in the linked documentation. The identity remains constant for the duration of the package's life on that device. Note that this does not allow the app to call emergency numbers. Create a permission group As shown in the previous section, you can use the android:permissionGroup attribute to help the system describe permissions to the user. You need to supply both a label and description for the permission. By doing this, for purposes of security the two packages are then treated as being the same app, with the same user ID and file permissions. If the functionality is only available to apps signed with the same signature as the providing app, you may be able to avoid defining custom permissions by using signature checks. Note that in order to retain security, only two apps signed with the same signature (and requesting the same sharedUserId) will be given the same user ID. This allows the system to grant or deny apps access to signature-level permissions and to grant or deny an app's request to be given the same Linux identity as another app. By defining custom permissions, an app can share its resources and capabilities with other apps. The element does not specify the permissions that belong to the group, but it gives the group a name. Linux thereby isolates apps from each other and from the system. For example, an app that wants to control who can start one of its activities could declare a permission for this operation as follows:

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