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Android 8.0 (API level 26) and Android support library 26 introduce support for API to request fonts from a supplier application instead of packaging files in the app or leaving app fonts. The function is available on devices running Android 14 and higher API versions through the support library function 26. Downloadable fonts offers the following advantages: Reduces the App size increases the success rate the app installation improves health System overall as multiple applications can share the same font in a provider. This saves cellular data, phone memory and disk space. In this model, the font is taken from the network in case of need. Refer to the following related resources: Downloadable Fonts Sample Java App | Kotlin How does Downloadable Fonts work? A font provider is an application that retrieves the fonts and caches in locales so other applications can request and sharing fonts. Figure 1 illustrates the process. Figure 1. Downloadable Fonts Process the Fundamental Principles You can use the downloadable fonts function in the following ways: Using Downloadable fonts via Android Studio and Google Play services you can set the application to download fonts using Android Studio 3.0 or higher. To help you start with the features of downloadable fonts, you can use the font provider from Google Play Services. Note: a device must have Google Play Services version 11 or higher to use the Google Fonts provider. In the layout editor, select a TextView, and then in Property, select FontfamilyA,> font. Figure 2. Using the layout editor displayed the resource window. In the Source drop-down list, select Google Fonts. In the font box, select a font. Select Create downloadable font and click OK. Note: To group the character in your app, select Add Character to the project. Figure 3. Character selection From the Android Studio resource window automatically generates relevant XML files that are needed to make the character correctly in your application. Font file Figure 4. The preview using DownloadDable programming fonts before Android 8.0 (level 26 API), the support library 26.0 provides full support for Downloadable Fonts. For more information on how to use the support library, go to the Downloadable Fonts support library section. To use the programming level downloadable font function, you need to interact with two key classes: Android.graphics.fonts.FontRequest: This class allows you to create a font request. FontContract: This class allows you to create a new character object based on the character request. Its retrieves fonts from the character supplier using the FontContract API. Each provider has its own series of restrictions on Android versions and the language queries that supports. For more information on Android versions and format queries, refer to the Documentation of the provider s. To download a character, do the following: Create an instance of the Android.graphics.fonts.FontRequest class to request the font from the provider. To create a request, pass the following parameters: Font supplier authority The font provider package to verify the identity of the supplier the string query of the font. For more information on query formats, consult the character supplier documentation, such as Google Fonts. A list of hash groups for certificates to verify the identity of the supplier. Note: there is no need to add a certificate if you request the fonts from PrinInstalled. However, you must always provide a certificate if you require fonts through the support library. Request Val = FontRequest ("com.example.fontprovider.authority", "com.example.fontprovider", "My character", CERT) Fontrequest required = New Fontrequest ("Com.Example.Fontprovider", "Com.Example. Fontprovider ", " My character ", CERT); Note: You can receive parameter values from the Font provider. Android Studio automatically populates these values for providers that supports in its user interface. Create an instance of the FontContract.FontRequestCallback class. Perform the override of the Method to indicate that the request of the character is complete. Provide the character recovered as a parameter. You can use this method to set the font, depending on the need. For example, you can set the font to a TextView overwrite the OnTypefaceRequestFailed () method to receive information about errors in the character request process. For more information on error codes, refer to the constants of the error code. Call the FontContract.RequestFont () method to retrieve the font from the font provider. The method starts a verification to determine if the character exists in the cache. If the font is not available locally, it is called the font supplier, retrieve the font asynchronously, and pass the result to the callback. Pass the following parameters: An instance of the context class An instance of the Android.graphics.fonts.FontRequest class a callback to receive the results of the character request a manager to go and take the characters on a thread note: Make sure this manager It is not the user Handler interface thread. The following sample code illustrates the Global Downloadable Fonts process: Val = request FontRequest ("com.example.fontprovider.authority", "com.example.fontprovider", "My character", CERT) Val Callback = Subject: FontContract.FontRequestCallback () {Override fun onTypefaceRequestFailed (character: character) { // The code to use the character goes here ...} Override fun onTypefaceRequestFailed (reason: int) { // the code to do with failure go here ...} } fontContract.requestFonts (context, request, handler, null, callback) request fontrequest = new fontrequest ("com.example.fontprovider.authority", "com.example.fontprovider", "my character", CERT); FontContract.FontRequestCallback callback = new fontContract.FontRequestCallbackBack () { @Override public void onTypefaceRequestFailed (typeface typeface) { // The code to use the character goes here ...} @Override public onTypefaceRequestFailed (int rano) { // your code To deal with failure, it goes here ...} } ; FontContract.requestFonts (context, request, manager, null, callback); For more information on how to download a font from a font supplier, see the example downloadable application Java Font | Kotlin. Using Downloadable Fonts through the support library The support library 26 provides support for downloadable features on devices that perform Android 14 or higher API versions. The Android.support.v4.provider package contains the fontContractCompat and fontrequest classes to implement the support of downloadable features compatible with download characters. The support library classes contain similar methods. The font download process is also similar to the one mentioned in the font section. For fonts download using the support library, import the FontContractCompat and Fontrequest classes from the Android.support.v4.provider package. Create instances of these classes instead of fontContract and android.graphics.fonts.FontRequest Framework classes. Note: You must provide a certificate when requesting fonts via the support library. This is also applicable for pre-installed font providers. Adding the addition library support to use the FontContractCompat and Fontrequest classes, you need to change the ClassPath dependencies of your app project within your development environment. To add a support library to the application project: Open the application file build.gradle. Add the support library to the dependency section. Dependencies { ... Implementation "com.android.support:support-compat:28.0.0" } dependencies { ... Implementation (Using Downloadable Fonts as resources in XML Android 8.0 (API 26 level) and support library 26 offer a fastest and most convenient way to declare a personalized character as a resource in the XML layout. This means that there is no need to bring together the font like a good. You can define a personalized character for the entire theme, which accelerates the usability for more weights and styles, such as bold, medium, or light, where necessary. Create a new XML XML file The Res / Font folder. Add Root element and sets the attributes related to the character as shown in the following example XML file: mieqdcca5cgawibagija071ma0gcsgqsib3dqebbaumiggi3dqebbamigumb5www ... > Sets the attribute of the FontProvidercerts to Array. Android: FontProvidercerts = "@ Array / Certs" Note: If the provider has more than a SET of CERT, you can define a series of string arrays. Array.

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