Android Public Tracker > App Development > Jetpack (androidx) > Core   149665837 ▾

← C ☆   **IllegalArgumentException: Failed to create internal object. maybe invalid font data**   +1 ⁵   Hotlists   Mark as Duplicate   🔔   ⋮

Comments (5)   Dependencies   Duplicates (0)   Blocking (0)   Resources (4)

[WAI]   Bug   P2   + Add Hotlist

👥 **STATUS UPDATE**   No update yet.   Edit

📄 **DESCRIPTION** mo...@ottogroup.com created issue #1

After migrating to Android 10 we are encountering a crash when inflating TextView with fontFamily applied. The issue is reproducable on the Pixel 3a with Android 10 and core:1.2.0 within the at

The given font is working fine with Android 9 and below, only on Android 10 it looks like its broken.

```
2020-02-17 16:37:21.464 3135-3135/com.ottogroup.myapplication E/AndroidRuntime: FATAL EXCEPTION: main
    Process: com.ottogroup.myapplication, PID: 3135
    java.lang.RuntimeException: Unable to start activity ComponentInfo{com.ottogroup.myapplication/com.ottogroup.myapplication.MainActivity}: android.view.InflateException: Binary XML file li
com.ottogroup.myapplication:layout/activity_main: Binary XML file line #22 in com.ottogroup.myapplication:layout/activity_main: Error inflating class TextView
        at android.app.ActivityThread.performLaunchActivity(ActivityThread.java:3270)
        at android.app.ActivityThread.handleLaunchActivity(ActivityThread.java:3409)
        at android.app.servertransaction.LaunchActivityItem.execute(LaunchActivityItem.java:83)
        at android.app.servertransaction.TransactionExecutor.executeCallbacks(TransactionExecutor.java:135)
        at android.app.servertransaction.TransactionExecutor.execute(TransactionExecutor.java:95)
        at android.app.ActivityThread$H.handleMessage(ActivityThread.java:2016)
        at android.os.Handler.dispatchMessage(Handler.java:107)
        at android.os.Looper.loop(Looper.java:214)
        at android.app.ActivityThread.main(ActivityThread.java:7356)
        at java.lang.reflect.Method.invoke(Native Method)
        at com.android.internal.os.RuntimeInit$MethodAndArgsCaller.run(RuntimeInit.java:492)
        at com.android.internal.os.ZygoteInit.main(ZygoteInit.java:930)
     Caused by: android.view.InflateException: Binary XML file line #22 in com.ottogroup.myapplication:layout/activity_main: Binary XML file line #22 in com.ottogroup.myapplication:layout/activit
TextView
        Caused by: android.view.InflateException: Binary XML file line #22 in com.ottogroup.myapplication:layout/activity_main: Error inflating class TextView
        Caused by: java.lang.IllegalArgumentException: Failed to create internal object. maybe invalid font data
        at android.graphics.fonts.FontFamily$Builder.nBuild(Native Method)
        at android.graphics.fonts.FontFamily$Builder.build(FontFamily.java:121)
        at android.graphics.fonts.FontFamily$Builder.build(FontFamily.java:111)
        at androidx.core.graphics.TypefaceCompatApi29Impl.createFromResourcesFontFile(TypefaceCompatApi29Impl.java:146)
        at androidx.core.graphics.TypefaceCompat.createFromResourcesFontFile(TypefaceCompat.java:147)
        at androidx.core.content.res.ResourcesCompat.loadFont(ResourcesCompat.java:418)
        at androidx.core.content.res.ResourcesCompat.loadFont(ResourcesCompat.java:361)
        at androidx.core.content.res.ResourcesCompat.getFont(ResourcesCompat.java:339)
        at androidx.appcompat.widget.TintTypedArray.getFont(TintTypedArray.java:119)
        at androidx.appcompat.widget.AppCompatTextHelper.updateTypefaceAndStyle(AppCompatTextHelper.java:430)
        at androidx.appcompat.widget.AppCompatTextHelper.loadFromAttributes(AppCompatTextHelper.java:204)
        at androidx.appcompat.widget.AppCompatTextView.<init>(AppCompatTextView.java:105)
        at androidx.appcompat.widget.AppCompatTextView.<init>(AppCompatTextView.java:95)
        at androidx.appcompat.app.AppCompatViewInflater.createTextView(AppCompatViewInflater.java:182)
        at androidx.appcompat.app.AppCompatViewInflater.createView(AppCompatViewInflater.java:103)
        at androidx.appcompat.app.AppCompatDelegateImpl.createView(AppCompatDelegateImpl.java:1407)
        at androidx.appcompat.app.AppCompatDelegateImpl.onCreateView(AppCompatDelegateImpl.java:1457)
        at android.view.LayoutInflater.tryCreateView(LayoutInflater.java:1061)
        at android.view.LayoutInflater.createViewFromTag(LayoutInflater.java:997)
        at android.view.LayoutInflater.createViewFromTag(LayoutInflater.java:961)
        at android.view.LayoutInflater.rInflate(LayoutInflater.java:1123)
        at android.view.LayoutInflater.rInflateChildren(LayoutInflater.java:1084)
        at android.view.LayoutInflater.inflate(LayoutInflater.java:682)
        at android.view.LayoutInflater.inflate(LayoutInflater.java:534)
        at android.view.LayoutInflater.inflate(LayoutInflater.java:481)
        at androidx.appcompat.app.AppCompatDelegateImpl.setContentView(AppCompatDelegateImpl.java:555)
        at androidx.appcompat.app.AppCompatActivity.setContentView(AppCompatActivity.java:161)
2020-02-17 16:37:21.465 3135-3135/com.ottogroup.myapplication E/AndroidRuntime:     at com.ottogroup.myapplication.MainActivity.onCreate(MainActivity.kt:15)
        at android.app.Activity.performCreate(Activity.java:7825)
        at android.app.Activity.performCreate(Activity.java:7814)
        at android.app.Instrumentation.callActivityOnCreate(Instrumentation.java:1306)
        at android.app.ActivityThread.performLaunchActivity(ActivityThread.java:3245)
        at android.app.ActivityThread.handleLaunchActivity(ActivityThread.java:3409)
        at android.app.servertransaction.LaunchActivityItem.execute(LaunchActivityItem.java:83)
        at android.app.servertransaction.TransactionExecutor.executeCallbacks(TransactionExecutor.java:135)
        at android.app.servertransaction.TransactionExecutor.execute(TransactionExecutor.java:95)
        at android.app.ActivityThread$H.handleMessage(ActivityThread.java:2016)
        at android.os.Handler.dispatchMessage(Handler.java:107)
        at android.os.Looper.loop(Looper.java:214)
        at android.app.ActivityThread.main(ActivityThread.java:7356)
        at java.lang.reflect.Method.invoke(Native Method)
        at com.android.internal.os.RuntimeInit$MethodAndArgsCaller.run(RuntimeInit.java:492)
        at com.android.internal.os.ZygoteInit.main(ZygoteInit.java:930)
```

MyApplication.zip

946 KB <u>Download</u>

✓ Mentioned issues (1)   ✓ Links (3)

🐞 **Mentioned issues (1)**

P4   Crashing apps which have style applied for Button that has following attributes: font and textstyle set to bold "<u>https://issuetracker.google.com/150232916</u>"

🔗 **Links (3)**

"<u>http://schemas.android.com/apk/res-auto</u>"
" …n is thrown when the minikin failed to parse the cmap table in the font. <u>https://cs.android.com/android/platform/superproject/+/master:frameworks/base/core/jni/android/graphics/fonts/FontFar</u>
"<u>https://docs.microsoft.com/en-us/typography/opentype/spec/cmap#use-of-the-language-</u>… "

COMMENTS   All comm

co...@gmail.com <co...@gmail.com> <u>#2</u>

I'm seeing same crash with same dependency + device. This seems related: <u>https://issuetracker.google.com/issues/150232916</u>

co...@gmail.com <co...@gmail.com> <u>#3</u>

I managed to fix this by setting a different `app:fontWeight` for each `<font>` in `<font-family>`. E.g:

```xml
<?xml version="1.0" encoding="utf-8"?>
<font-family xmlns:app="http://schemas.android.com/apk/res-auto">
    <font
        app:fontWeight="400"
        app:font="@font/custom_regular" />
    <font
        app:fontWeight="500"
        app:font="@font/custom_medium" />
    <font
        app:fontWeight="410"
        app:font="@font/custom_italic" />
    <font
        app:fontWeight="700"
        app:font="@font/custom_bold" />
    <font
        app:fontWeight="710"
        app:font="@font/custom_demi_bold" />
</font-family>
```

Tested with Pixel 3A on Android 10 and `androidx.core:core-ktx:1.2.0`

ki...@google.com <ki...@google.com>

Assigned to si...@google.com.

si...@google.com <si...@google.com>

Reassigned to an...@google.com.

no...@google.com <no...@google.com> <u>#4</u>

This exception is thrown when the minikin failed to parse the cmap table in the font. https://cs.android.com/android/platform/superproject/+/master:frameworks/base/core/jni/android/gra

Currently I have no idea why this happens from Android 10.

no...@google.com <no...@google.com> <u>#5</u>

Status: Won't Fix (Intended Behavior)

I just looked into your font and I find that your font file doesn't follow the OpenType specification.

The language field in cmap subtable must be zero.

https://docs.microsoft.com/en-us/typography/opentype/spec/cmap#use-of-the-language-field-in-cmap-subtables