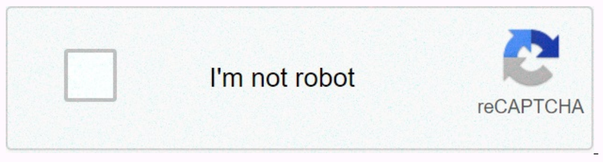

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Bottomsheetdialogfragment rounded corners

04 May 2020 The format is an important component of material design, and the Library of Materials Design Components for Android supports theme formatting on many of the views it offers. I recently found myself struggling to get my bottom sheets to show rounded corners. Here's a guide to properly formatting the bottom sheets! Bottom sheet with cut corner Bottom sheet with rounded corners Library of material components allows us to fairly easily configure the corners of components such as the lower sheets. It also offers more than just rounded corners - you can also have cut corners! Before we begin, I recommend checking the material for form documents to learn more about how the Material recommends using the form during your application. Shape layout The first step in creating the right shape for the bottom sheet is to define the shape of the layout. It's simply a style that defines what kind of shape we want for our bottom sheet. A simple rounded angle shape would look <style name=ShapeAppearanceOverlay.Demo parent=> <item name=cornerSize>8dp</item> <item name=cornerFamily>rounded</item> </style> something like this: We could also create a shape with the top <style=ShapeAppearanceOverlay.Demo parent=> <item name=cornerSize>0dp</item> <item name=cornerFamilyTopLeft>cut</item> <item name=cornerSizeTopLeft>16dp</item> </item> <item name=cornerSizeTopLeft>16dp</item> </item> &1Lt;/style> left corner like this: All available attributes and more shape documentation can be found on the Material Design Global theme shape categories website One of the options for shaping our bottom sheets is to use shape categories across the Material Design theme. All formatted components fall into one of three categories - small, medium, or large- and each of these categories has its default shape layout. The lower sheets belong to a large bucket, which also includes nav trays, side sheets and wallpapers. If these components should share the same shape as the sheets below, set theAppearanceLargeComponent format to your theme in this way: If <style name=AppTheme parent=Theme.MaterialComponents.Light.NoActionBar> <item name=shapeAppearanceLargeComponent>@style/ShapeAppearanceOverlay.Demo</item> </style> you just want to format your lower sheets of dialogue (both BottomSheetDialog and BottomSheetDialogFragment), you can instead set bottomSheetDialogTheme and bottomSheetStyle on the theme of the application: <style name=AppTheme parent=Theme.MaterialComponents.Light.NoActionBar> <item name=bottomSheetDialogTheme>@style/ThemeOverlay.Demo.BottomSheetDialog</item> </style> <style name=ThemeOverlay.Demo.BottomSheetDialog parent=/style> <style name=ThemeOverlay.Demo.BottomSheetDialog parent=@style/ThemeOverlay.MaterialComponents.BottomSheetDialog> <item name=bottomSheetStyle>@style/Widget.Demo.BottomSheet</item> </style><style parent=Widget.MaterialComponents.BottomSheet></style> parent=Widget.MaterialComponents.BottomSheet></style> Let's explore these styles a little more: The BottomSheetStyle attribute determines the application style to the bottom sheets The bottomSheetDialogTheme attribute lists the theme for each BottomSheetDialog and BottomSheetDialogFragment in your application. ThemeOverlay.Demo.BottomSheetDialog then defines the bottomSheetStyle attribute, which specifies the application style to the sheet below. Behind the scenes, this actually applies to FrameLayout which is then attached to BottomSheetBehavior. Finally, Widget.Demo.BottomSheet determines the format ofAppearanceOverlay that defines the shape of our bottom sheets. Using the AppearanceOverlay format here when a library of material design components also defines the shape of theAppearance attribute can be confusing! Here's the difference: shapeAppearance should be a reference to a theme attribute (generally one of the above sizes, such as theAppearanceLargeComponent format) theAppearanceOverlay format should directly reference a style that overrides the defaultAppearance format. In other words, use shapeAppearance if you want to set up a small/medium/large-shaped widget bucket and the shape ofAppearanceOverlay if you want to override that bucket. We can also form individual lower leaves! First we need to define the theme layer as we did before: Then we can wrap our context with our theme when we create <style name=ThemeOverlay.Demo.BottomSheetDialog parent=@style/ThemeOverlay.MaterialComponents.BottomSheetDialog> <item name=bottomSheetStyle>@style/Widget.Demo.BottomSheet</item> </style> <style name=Widget.Demo.BottomSheet parent=Widget.MaterialComponents.BottomSheet> <item name=shapeAppearanceOverlay>@style/ShapeAppearanceOverlay.Demo</item> </style> BottomSheetDialog: val wrapdContext = ContextThemeWrapper (getContext(), R.style.ThemeOverlay_Demo_BottomSheetDialog)) wave dialog BottomDialog(wrapdContext) // ... Or we can set the theme to BottomSheetDialogFragment: DemoBottomSheetDialogFragment class: BottomSheetDialogFragment() { override fun onCreate (savedInstanceState: Bundle) { super.onCreate (savedInstanceState) setStyle(DialogFragment.STYLE_NORMAL, R.style.ThemeOverlay_Demo_BottomSheetDialog) } Finally, We can apply our style to the persistent bottom sheet: There are two other things to which to <FrameLayout android:id=@+id/bottom_sheet style=@style/Widget.Demo.BottomSheet android:layout_width=match_parent android:layout_height=400dp app:layout_behavior=@string/bottom_sheet_behavior></FrameLayout> Be careful- First, be careful with the bottom sheets that define your own background. The format you define for the bottom sheet applies to the background of the sheet and the contents are not easyed into that format. This means that if you define your own background for your dialog, you will lose rounded corners! Secondly, keep on the sparks that the bottom sheets automatically animate their corners any rounded or cut shape into a square shape when the sheet is fully expanded. You cannot easily disable this behavior. Here's an example with cut corners: I'm having trouble trying to put rounded edges, since I'm displaying it as modal, and I want its top corners to be rounded, I find examples but it's all for Android-Java, except because I see them creating a style-v21 file, but I don't know what it's like to use it 0 You can't perform that action at the moment. You signed in with another card or window. Reload to refresh the session. You signed in on another card or window. Reload to refresh the session. Steps as followedCreate custom BottomSheetDialogFragment for rounded corners as RoundedBottomSheetDialogFragment.ktCreate round shape BottomSheetDialog as shape_rounded_dialog.xmlSet shape in styles for two versions as values/styles.xml and values-v21/styles.xmlApplyRoundedSheetDialogFragment.kt2. shape_rounded_dialog.xmlRectangle shape with upper left and right angle radius set as 16dp in this example3-1. Styles.xmlSet shape in style for BottomSheetDialog.3.2. values-v21/styles.xml4. Inherit or create an example of RoundedBottomSheetDialogFragment.kt for BottomSheetDialogs that you want to have rounded corners. With the new material component library, you can customize the shape of your component by using theAppearanceOverlay attribute format in your style (For example: this requires version 1.1.0) Just use bottomsheetDialogFragment that overrides the onCreateView method, and then define your custom style for Bottom Sheet Dialogs. Define bottomSheetDialogTheme attribute in styles.xml in an application theme: Then just define your favorite format with theAppearanceOverlay format You can get the same behavior that overrides this <!-- Base application theme method. --> <style name=AppTheme parent=Theme.MaterialComponents.Light> <!-- Customize your theme here. --> <item name=colorPrimary>@color/colorPrimary</item> .... <item name=bottomSheetDialogTheme>@style/CustomBottomSheetDialog</item> </style> <style name=CustomBottomSheetDialog parent=@style/ThemeOverlay.MaterialComponents.BottomSheetDialog> <item name=bottomSheetStyle>@style/CustomBottomSheet</item> </style> <style name=CustomBottomSheet parent=Widget.MaterialComponents.BottomSheet> <item name=shapeAppearanceOverlay>@style/CustomShapeAppearanceBottomSheetDialog</item> </style> <style name=CustomShapeAppearanceBottomSheetDialog parent=> <item name=cornerFamily>rounded</item> <item name=cornerSizeTopRight>16dp</item> <item name=cornerSizeTopLeft>16dp</item> <item name=cornerSizeBottomRight>0dp</item> <item </style> in your BottomSheetDialogFragment (instead of adding the bottomsheetDialogTheme to the application theme): @Override public int getTheme() { return R.style.CustomBottomSheetDialog; } In that case, yes, yes. This ThemeOverlay only in one BottomSheetDialogFragment, not all applications. Important note on EXTENDED STATE: In extended state, BottomSheet has flat angles . You can check the official commentary in github repo: Our design team strongly thinks that rounded corners indicate moveable content, while flat angles indicate that there is no additional content. As such, they don't want us to add to this change with fitToContents. This behavior is provided by BottomSheetBehavior and impossible to override. However, there is a reverse solution -> DISCLAIMER: it can stop working in the following editions!! You can add BottomSheetCallback to BottomSheetDialogFragment: @NonNull @Override Public Dialog onCreateDialog (@Nullable Bundle savedInstanceState) { Dialog dialog = super.onCreateDialog (savedInstanceState); ((BottomSheetDialog)dialog).getBehavior().addBottomSheetCallback (new BottomSheetBehavior.BottomSheetCallback() { @Override public gap onStateChanged (@NonNull View bottomSheet, int newState) { if (newState == BottomSheetBehavior.STATE_EXPANDED) { //IN EXTENDED STATE apply the new MaterialShapeDrawable with rounded cornea MaterialShapeDrawable newMaterialShapeDrawable = createMaterialShapeDrawable (bottomSheet); ViewCompat.setBackground (bottomsheet, newMaterialShapeDrawable); } } @Override public gap onSlide (@NonNull View bottomSheet, floatoffset) { } }); feedback dialogue; } @NotNull private MaterialShapeDrawable createMaterialShapeDrawable (@NonNull View bottomSheet) { ShapeAppearanceModel shapeAppearanceModel = //Create a ShapeAppearanceModel with the same FormAppearanceOverlay format used in shapeappearanceModel.builder(getContext(), 0, R.style.CustomShapeAppearanceBottomSheetDialog) .build(); //Create a new MaterialShapeDrawable (you can't use the original MaterialShapeDrawable in the BottoSheet) MaterialShapeDrawable currentMaterialShapeDrawable = (MaterialShapeDrawable) bottomSheet.getBackground(); MaterialShapeDrawable newMaterialShapeDrawable = new MaterialShapeDrawable((shapeAppearanceModel)); Copy attributes to the new MaterialShapeDrawable newMaterialShapeDrawable.initializeElevationOverlay (getContext()); newMaterialShapeDrawable.setFillColor(currentMaterialShapeDrawable.getFillColor()); newMaterialShapeDrawable.setTintList (currentMaterialShapeDrawable.getTintList()); newMaterialShapeDrawable.setElevation (currentMaterialShapeDrawable.getElevation()); newMaterialShapeDrawable.setStrokeWidth (currentMaterialShapeDrawable.getStrokeWidth()); newMaterialShapeDrawable.setStrokeColor(currentMaterialShapeDrawable.getStrokeColor()); return of the newMaterialShapeDrawable; } }

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