Bottom Navigation

Bottom navigation bars allow movement between primary destinations in an app.

In layout.xml:

<LinearLayout

   xmlns:android="http://schemas.android.com/apk/res/android"

   xmlns:app="http://schemas.android.com/apk/res-auto"

   android:layout\_width="match\_parent"

   android:layout\_height="wrap\_content">

​

 <com.google.android.material.bottomnavigation.BottomNavigationView

     android:id="@+id/bottom\_navigation"

     style="@style/Widget.MaterialComponents.BottomNavigationView.Colored"

     android:layout\_width="match\_parent"

     android:layout\_height="wrap\_content"

     app:menu="@menu/bottom\_navigation\_menu" />

​

</LinearLayout>

In bottom\_navigation\_menu.xml inside a menu resource directory:

<menu xmlns:android="http://schemas.android.com/apk/res/android">

 <item

     android:id="@+id/page\_1"

     android:enabled="true"

     android:icon="@drawable/ic\_favorite"

     android:title="@string/favorites"/>

 <item

     android:id="@+id/page\_2"

     android:enabled="true"

     android:icon="@drawable/ic\_music"

     android:title="@string/music"/>

 <item

     android:id="@+id/page\_3"

     android:enabled="true"

     android:icon="@drawable/ic\_places"

     android:title="@string/places"/>

 <item

     android:id="@+id/page\_4"

     android:enabled="true"

     android:icon="@drawable/ic\_news"

     android:title="@string/news"/>

</menu>

In code:

BottomNavigationView.OnNavigationItemSelectedListener { item ->

   when(item.itemId) {

       R.id.item1 -> {

           // Respond to navigation item 1 click

           true

      }

       R.id.item2 -> {

           // Respond to navigation item 2 click

           true

      }

       else -> false

  }

}

There's also a method for detecting when navigation items have been reselected:

bottomNavigation.setOnNavigationItemReselectedListener { item ->

   when(item.itemId) {

       R.id.item1 -> {

           // Respond to navigation item 1 reselection

      }

       R.id.item2 -> {

           // Respond to navigation item 2 reselection

      }

  }

}

**Note:**BottomNavigationView does not support more than 5 menu items.

**Adding badges**

Initialize and show a BadgeDrawable associated with menuItemId, subsequent calls to this method will reuse the existing BadgeDrawable:

var badge = bottomNavigation.getOrCreateBadge(menuItemId)

badge.isVisible = true

// An icon only badge will be displayed unless a number is set:

badge.number = 99

**Container attributes**

|  |  |  |  |
| --- | --- | --- | --- |
| Element | **Attribute** | **Related methods** | **Default value** |
| **Color** | app:backgroundTint | N/A | ?attr/colorSurface |
| **Elevation** | app:elevation | setElevation | 8dp |

**Navigation item attributes**

|  |  |  |  |
| --- | --- | --- | --- |
| Element | **Attribute** | **Related methods** | **Default value** |
| **Menu resource** | app:menu | inflateMenu getMenu | N/A |
| **Ripple (inactive)** | app:itemRippleColor | setItemRippleColor getItemRippleColor | ?attr/colorOnSurface at 8% (see all [states](https://github.com/material-components/material-components-android/tree/master/lib/java/com/google/android/material/navigation/res/color/mtrl_navigation_bar_ripple_color.xml)) |
| **Ripple (active)** | " | " | ?attr/colorPrimary at 8% (see all [states](https://github.com/material-components/material-components-android/tree/master/lib/java/com/google/android/material/navigation/res/color/mtrl_navigation_bar_ripple_color.xml)) |
| **Label visibility mode** | app:labelVisibilityMode | setLabelVisibilityMode getLabelVisibilityMode | LABEL\_VISIBILITY\_AUTO |

**Icon attributes**

|  |  |  |  |
| --- | --- | --- | --- |
| Element | **Attribute** | **Related methods** | **Default value** |
| **Icon** | android:icon in the menu resource | N/A | N/A |
| **Size** | app:itemIconSize | setItemIconSize setItemIconSizeRes getItemIconSize | 24dp |
| **Color (inactive)** | app:itemIconTint | setItemIconTintList getItemIconTintList | ?attr/colorOnSurface at 60% |
| **Color (active)** | " | " | ?attr/colorPrimary |

**Text label attributes**

|  |  |  |  |
| --- | --- | --- | --- |
| Element | **Attribute** | **Related methods** | **Default value** |
| **Text label** | android:title in the menu resource | N/A | N/A |
| **Color (inactive)** | app:itemTextColor | setItemTextColor getItemTextColor | ?attr/colorOnSurface at 60% |
| **Color (active)** | " | " | ?attr/colorPrimary |
| **Typography (inactive)** | app:itemTextAppearanceInactive | setItemTextAppearanceInactive getItemTextAppearanceInactive | ?attr/textAppearanceCaption |
| **Typography (active)** | app:itemTextAppearanceActive | setItemTextAppearanceActive getItemTextAppearanceActive | ?attr/textAppearanceCaption |

**Styles**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Element | **Style** | **Container color** | **Icon/Text label color (inactive)** | **Icon/Text label color (active)** |
| **Default style** | Widget.MaterialComponents.BottomNavigationView | ?attr/colorSurface | ?attr/colorOnSurface at 60% | ?attr/colorPrimary |
| **Colored style** | Widget.MaterialComponents.BottomNavigationView.Colored | ?attr/colorPrimary | ?attr/colorOnPrimary at 60% | ?attr/colorOnPrimary |
| **Dark theme supported style** | Widget.MaterialComponents.BottomNavigationView.PrimarySurface | ?attr/colorPrimary in light theme ?attr/colorSurface in dark theme | ?attr/colorOnPrimary at 60% in light theme ?attr/colorOnSurface at 60% in light theme | ?attr/colorOnPrimary in light theme ?attr/colorPrimary in dark theme |