

Slide 8.7: Layout XML code: activity_main.xml (cont.)

Slide 8.9: Layout XML code: activity_main.xml (cont.)

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Layout XML Code (Cont.)

Line 01: LinearLayout class

This class arranges its children in a single column or a single row. There are several other layouts, which can be combined hierarchically to create complex screen layouts. This code defines an orientation, width, and height for the entire scope of the layout.

Line 03: android:orientation="vertical"

This attribute could include the following values:

- `horizontal`, which has the views get stacked horizontally such as:

`view1 view2 view3 ...`

- `vertical`, which has the views get stacked vertically such as:

`view1
view2
view3
...`

Line 04: android:layout_width="fill_parent"

It forces the view to expand to take up as much space as is available within the layout element it has been placed in. Setting a top-level layout to `fill_parent` will take up the whole screen. For example, the top figure is the button width having `fill_parent` value and the middle one is the button height having `fill_parent` value.



Line 10: android:layout_height="wrap_content"

Setting a view's size to `wrap_content` will force it to expand only far enough to contain the values it contains. For example, the bottom figure is both button width and height having `wrap_content` value.

Line 08: TextView class

This class displays text to the user.



HelloWorld/app/src/main/res/layout/activity_main.xml

```

01 <LinearLayout
02     xmlns:android            = "http://schemas.android.com/apk/res/android"
03     android:orientation      = "vertical"
04     android:layout_width      = "fill_parent"
05     android:layout_height     = "fill_parent"
06     android:weightSum         = "1"
07     android:gravity           = "center">
08     <TextView
09         android:layout_width   = "wrap_content"
10         android:layout_height = "wrap_content"
11         android:textAppearance = "?android:attr/textAppearanceLarge"
12         android:text           = "Hello, your name:"
13         android:layout_weight  = "0.07"
14         android:textStyle      = "bold" />
15     <EditText
16         android:layout_width   = "216dp"
17         android:layout_height  = "wrap_content"
18         android:id             = "@+id/name" />
19     <Button
20         android:layout_width   = "wrap_content"
21         android:layout_height  = "wrap_content"
22         android:text           = "@string/next_page"
23         android:id             = "@+id/next" />
24 </LinearLayout>

```

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