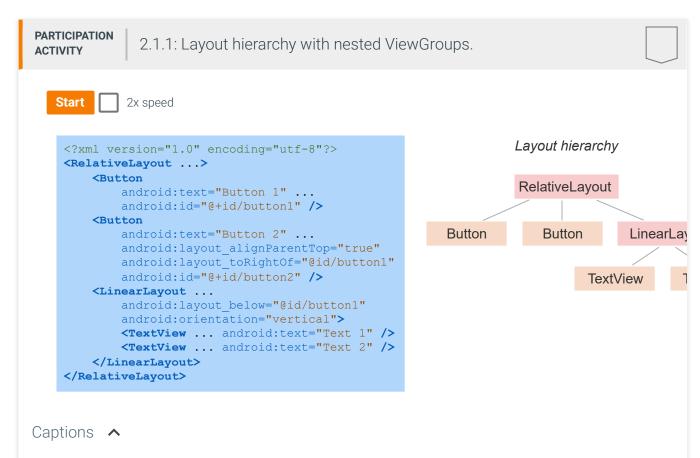
2.1 Layouts

layout file

An XML layout file specifies the widgets (View objects) and widget arrangement (ViewGroup objects) in the UI. Layout files are stored in a project's res/layout directory.

child / parent

A View that appears in a ViewGroup is called a child, and the ViewGroup is called the parent.



- 1. A RelativeLayout is the root ViewGroup in the layout file.
- 2. The RelativeLayout contains three children, two Button widgets and a LinearLayout, which form the next level of the hierarchy.
- 3. The LinearLayout contains two child TextView widgets, which form the third hierarchy level

Feedback?

layout parameters

Every ViewGroup implements layout parameters that determine the layout position of the child Views. A layout parameter is specified with an XML attribute named **layout_param** where **param** is a unique name.

layout_width / layout_height

All Views use the layout parameters layout_width and layout_height to specify the View's width and height.

wrap_content

The wrap_content constant makes the View just large enough to contain the View's contents.

match_parent

The match_parent constant makes the View fill the largest amount of space the parent ViewGroup permits.

Figure 2.1.1: Buttons using different layout_width and layout_height values.

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout height="wrap content"
    android:orientation="vertical">
    <Button
        android:layout_width="130dp"
        android:layout_height="90dp"
        android:text="Button 1" />
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Button 2" />
    <Button
        android:layout width="match parent"
        android:layout_height="match_parent"
        android:text="Button 3" />
</LinearLayout>
                 LayoutExample
               Button 1
             Button 2
                                Button 3
                                                                       Feedback?
```

This section does not contain presentation elements.

How was this provide feedback section?