

## Vertical LinearLayout

A [vertical](#) LinearLayout arranges its children in a column.

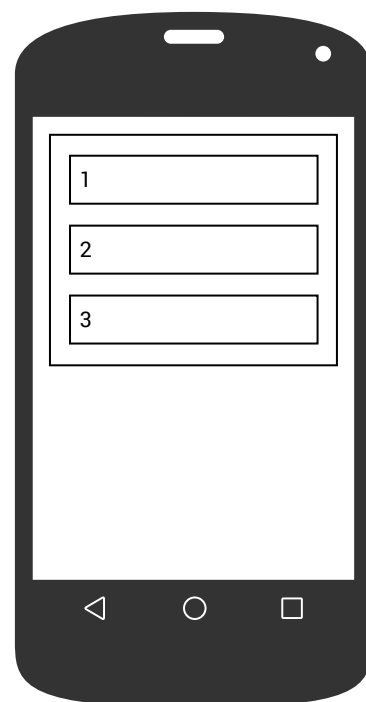
```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="1"/>

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="2"/>

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="3"/>

</LinearLayout>
```



## Horizontal LinearLayout

A [horizontal](#) LinearLayout arranges its children in a row.

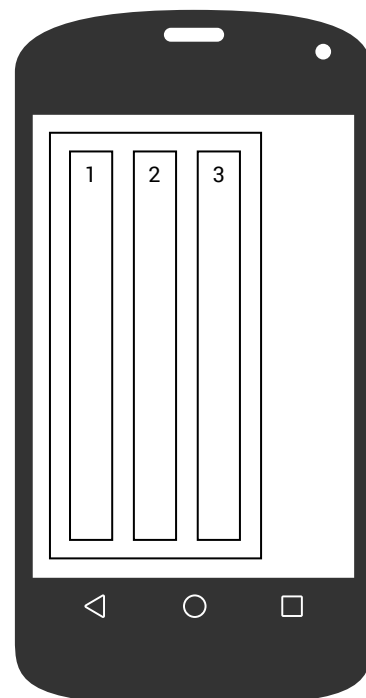
```
<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="match_parent"
    android:orientation="horizontal">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="match_parent"
        android:text="1"/>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="match_parent"
        android:text="2"/>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="match_parent"
        android:text="3"/>

</LinearLayout>
```



## Vertical LinearLayout: equal height

A vertical LinearLayout can give all of its children [equal height](#).

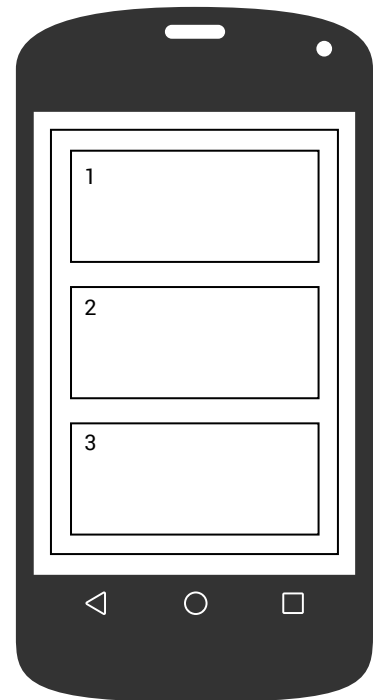
```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="0dp"
        android:layout_weight="1"
        android:text="1"/>

    <TextView
        android:layout_width="match_parent"
        android:layout_height="0dp"
        android:layout_weight="1"
        android:text="2"/>

    <TextView
        android:layout_width="match_parent"
        android:layout_height="0dp"
        android:layout_weight="1"
        android:text="3"/>

</LinearLayout>
```



## Vertical LinearLayout: leftover height

A vertical LinearLayout can give one of its children [all the leftover height](#).

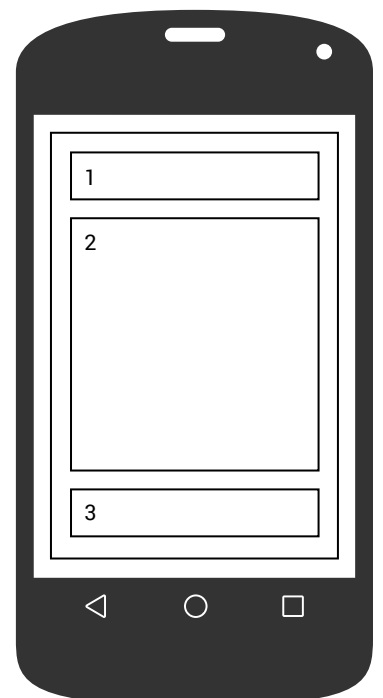
```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_weight="0"
        android:text="1"/>

    <TextView
        android:layout_width="match_parent"
        android:layout_height="0dp"
        android:layout_weight="1"
        android:text="2"/>

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_weight="0"
        android:text="3"/>

</LinearLayout>
```



## Horizontal LinearLayout: equal width

A horizontal LinearLayout can give all of its children equal width.

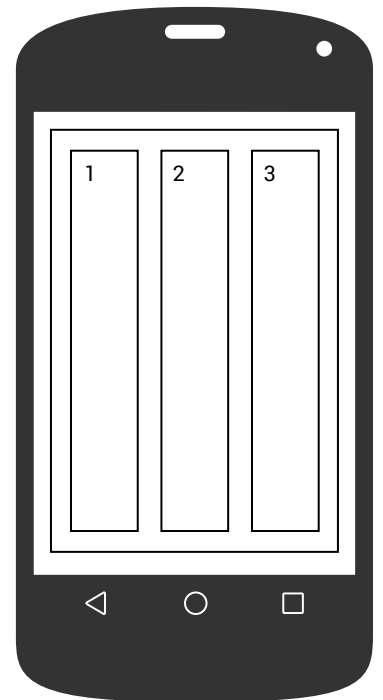
```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="horizontal">

    <TextView
        android:layout_width="0dp"
        android:layout_height="match_parent"
        android:layout_weight="1"
        android:text="1"/>

    <TextView
        android:layout_width="0dp"
        android:layout_height="match_parent"
        android:layout_weight="1"
        android:text="2"/>

    <TextView
        android:layout_width="0dp"
        android:layout_height="match_parent"
        android:layout_weight="1"
        android:text="3"/>

</LinearLayout>
```



## Horizontal LinearLayout: leftover width

A horizontal LinearLayout can give one of its children all the leftover width.

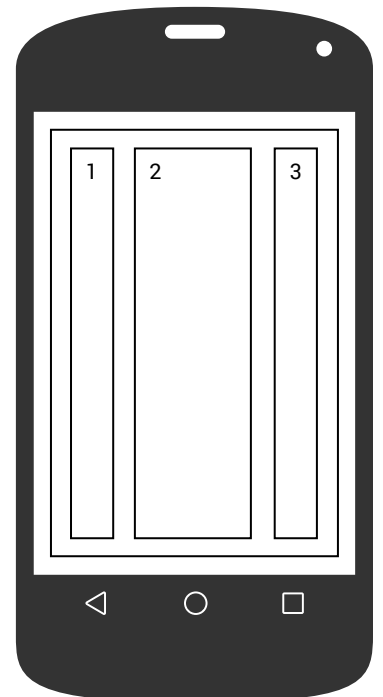
```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="horizontal">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="match_parent"
        android:layout_weight="0"
        android:text="1"/>

    <TextView
        android:layout_width="0dp"
        android:layout_height="match_parent"
        android:layout_weight="1"
        android:text="2"/>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="match_parent"
        android:layout_weight="0"
        android:text="3"/>

</LinearLayout>
```



# RelativeLayout

A RelativeLayout can position a child relative to the RelativeLayout.

```

<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_alignParentLeft="true"
        android:text="1"/>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:text="2"/>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_alignParentRight="true"
        android:text="3"/>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerVertical="true"
        android:layout_alignParentLeft="true"
        android:text="4"/>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerInParent="true"
        android:text="Center"/>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerVertical="true"
        android:layout_alignParentRight="true"
        android:text="5"/>

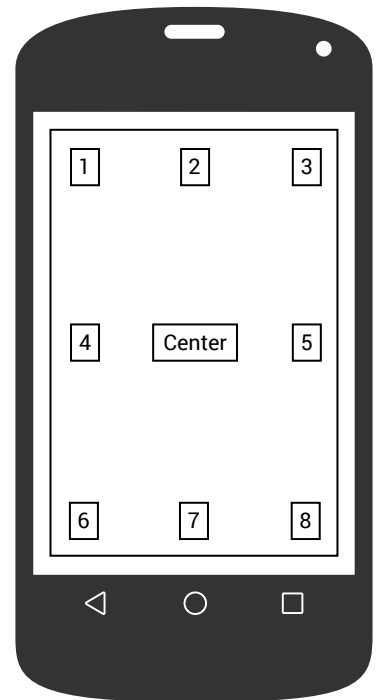
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentBottom="true"
        android:layout_alignParentLeft="true"
        android:text="6"/>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentBottom="true"
        android:layout_centerHorizontal="true"
        android:text="7"/>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentBottom="true"
        android:layout_alignParentRight="true"
        android:text="8"/>

</RelativeLayout>

```



## RelativeLayout

A RelativeLayout can position a child relative to another child that has an `android:id` attribute.

```

<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <TextView
        android:id="@+id/center"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerInParent="true"
        android:text="Center"/>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_toLeftOf="@id/center"
        android:layout_alignBottom="@id/center"
        android:text="2"/>

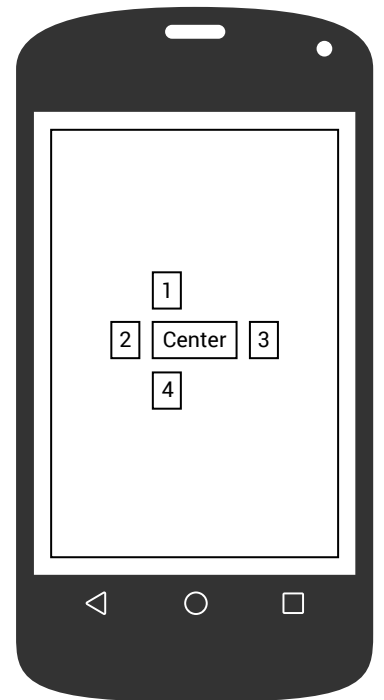
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_toRightOf="@id/center"
        android:layout_alignBottom="@id/center"
        android:text="3"/>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_above="@id/center"
        android:layout_alignLeft="@id/center"
        android:text="1"/>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@id/center"
        android:layout_alignLeft="@id/center"
        android:text="4"/>

</RelativeLayout>

```



See the [UI Overview](#) and [Layouts Guide](#). The attributes for the children of each type of layout are listed in the LayoutParams classes.

- For LinearLayout, see the [LinearLayout Guide](#), class [LinearLayout](#) and its [source code](#), and class [LinearLayout.LayoutParams](#) and its [source code](#).
- For RelativeLayout, see the [RelativeLayout guide](#), class [RelativeLayout](#) and its [source code](#), and class [RelativeLayout.LayoutParams](#) and its [source code](#).

The Views in the above images are outlined only for clarity. Additional code would be needed to draw the black borders and the margins between them.