



Layout Fundamentals

Overlapping Views

```
<FrameLayout</pre>
    android:layout width="match parent"
    android:layout_height="match parent">
    <View
        android:layout width="240dp"
        android:layout height="180dp"
        android:background="#9cf" />
    <View
        android:layout width="180dp"
        android:layout height="240dp"
        android:background="#c9f" />
</FrameLayout>
```



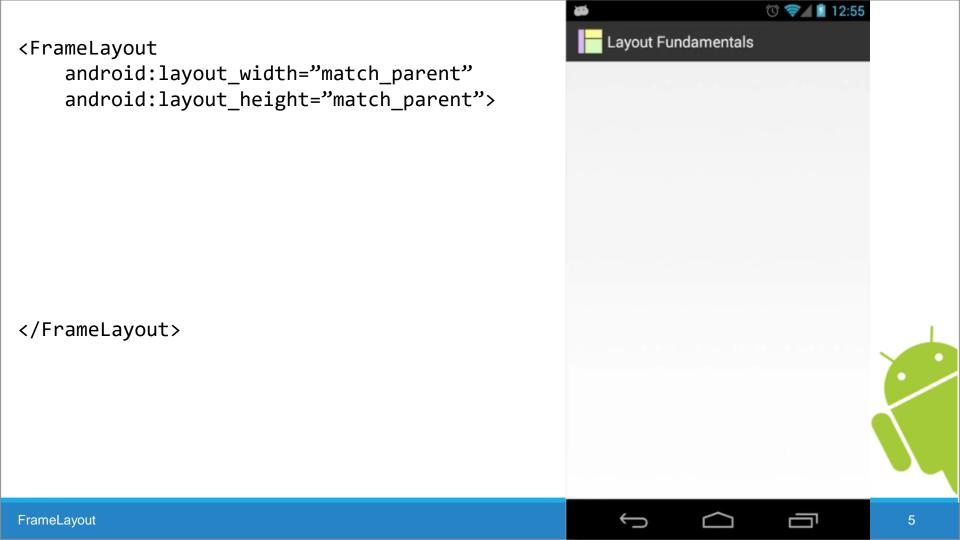
res/values/colors.xml

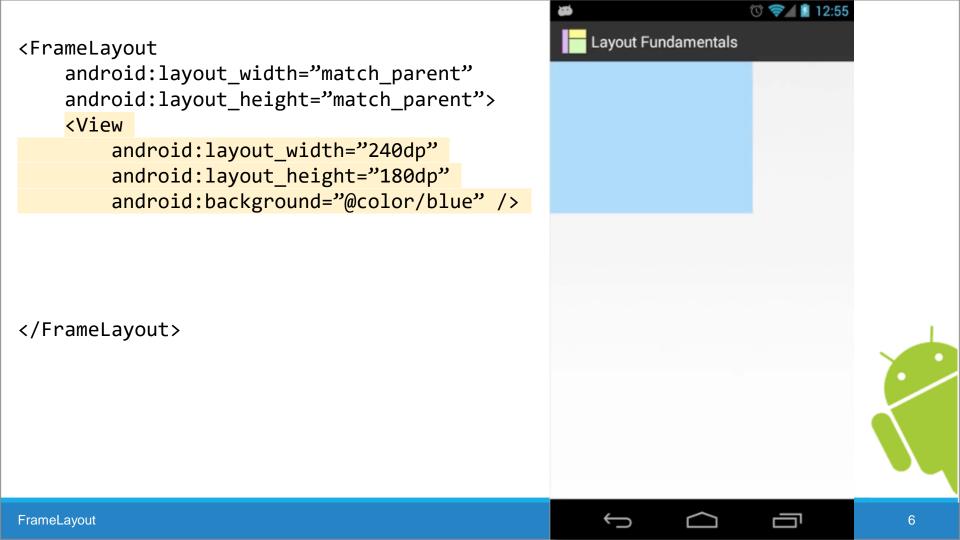


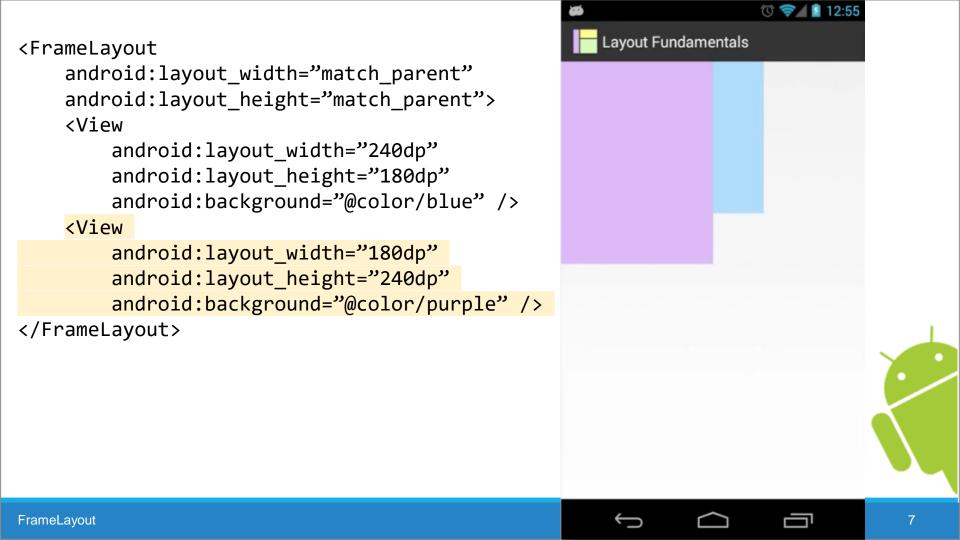
Overlapping Views

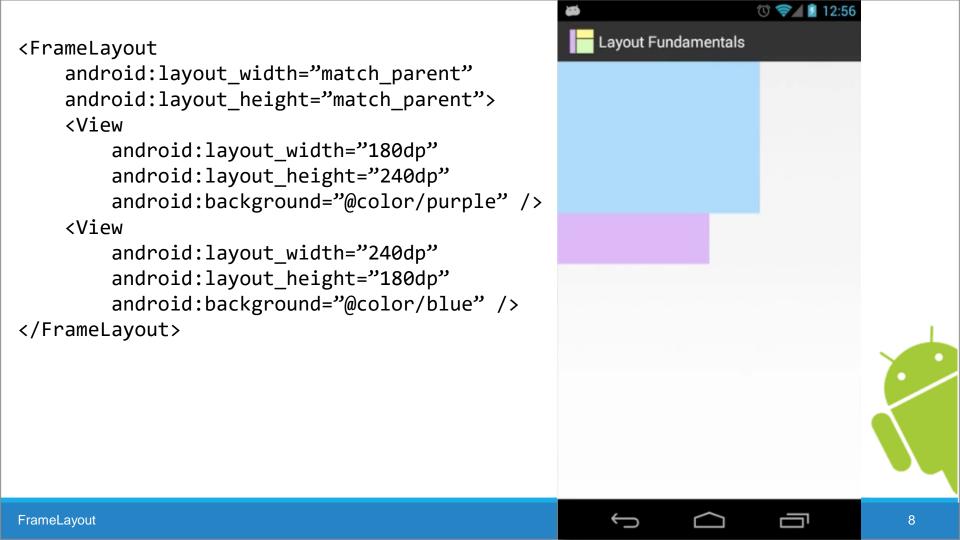
```
<FrameLayout</pre>
    android:layout width="match parent"
    android:layout_height="match parent">
    <View
        android:layout width="240dp"
        android:layout height="180dp"
        android:background="@color/blue" />
    <View
        android:layout_width="180dp"
        android:layout height="240dp"
        android:background="@color/purple" />
</FrameLayout>
```







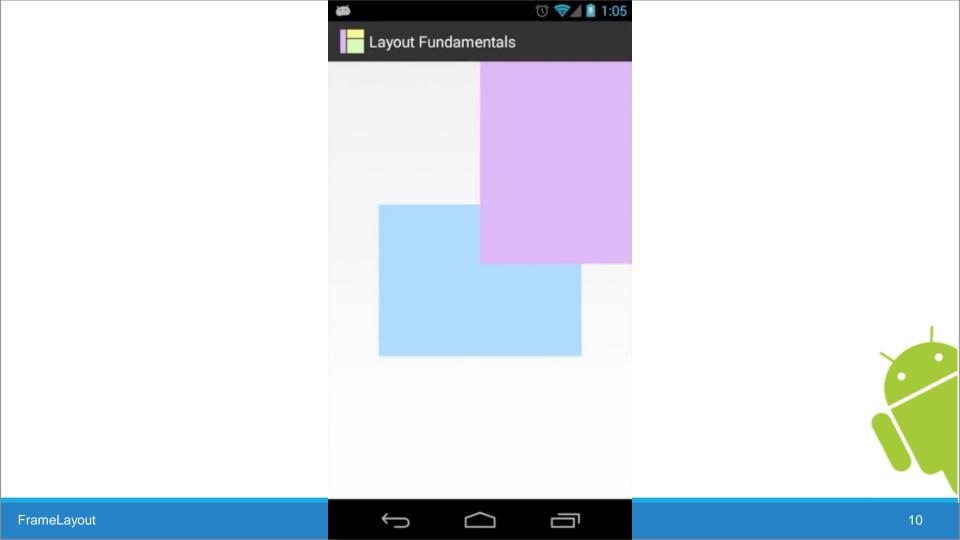




Gravity

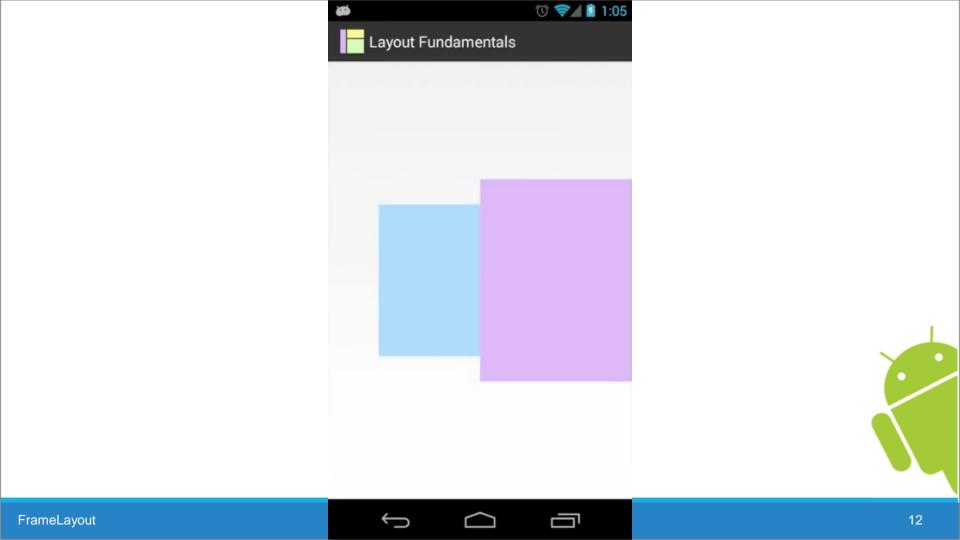
```
<FrameLayout</pre>
    android:layout width="match parent"
    android:layout height="match parent">
    <View
        android:layout width="240dp"
        android:layout height="180dp"
        android:layout gravity="center"
        android:background="@color/blue" />
    <View
        android:layout width="180dp"
        android:layout height="240dp"
        android:layout gravity="right"
        android:background="@color/purple" />
</FrameLayout>
```





Gravity

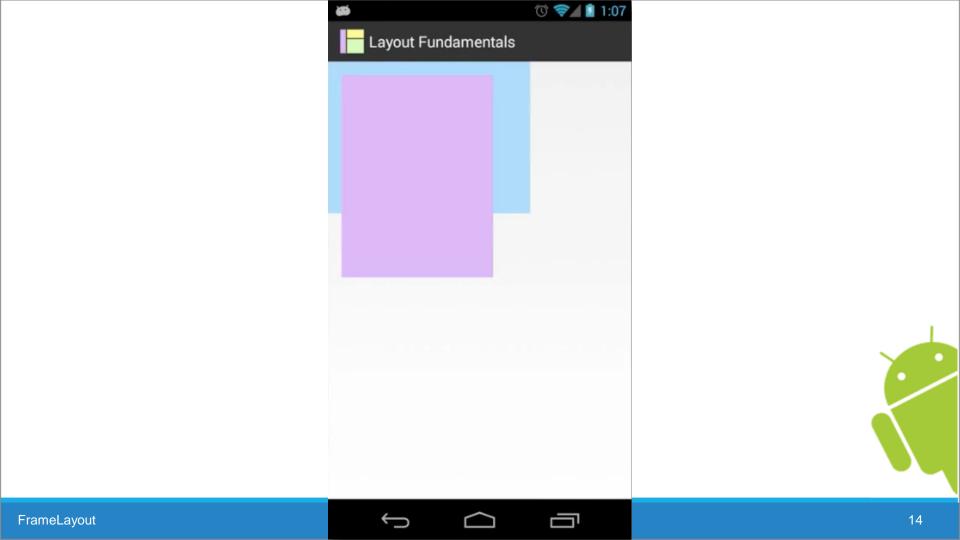
```
<FrameLayout</pre>
    android:layout width="match parent"
    android:layout height="match parent">
    <View
        android:layout width="240dp"
        android:layout height="180dp"
        android:layout gravity="center"
        android:background="@color/blue" />
    <View
        android:layout width="180dp"
        android:layout height="240dp"
        android:layout_gravity="right|center vertical"
        android:background="@color/purple" />
</FrameLayout>
```



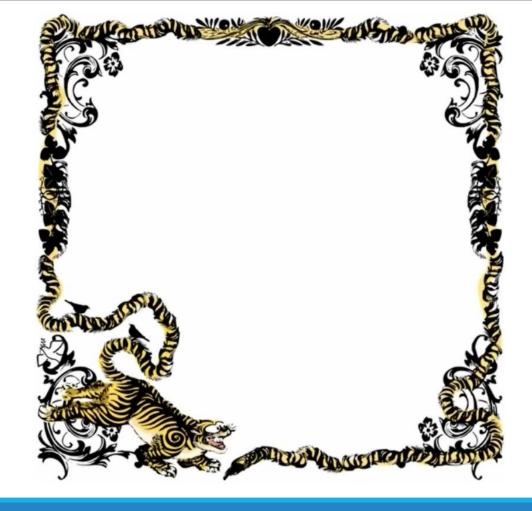
Margin

```
<FrameLayout</pre>
    android:layout width="match parent"
    android:layout height="match parent">
    <View
        android:layout width="240dp"
        android:layout height="180dp"
        android:background="@color/blue" />
    <View
        android:layout width="180dp"
        android:layout height="240dp"
        android:layout margin="16dp"
        android:background="@color/purple" />
</FrameLayout>
```





Frame

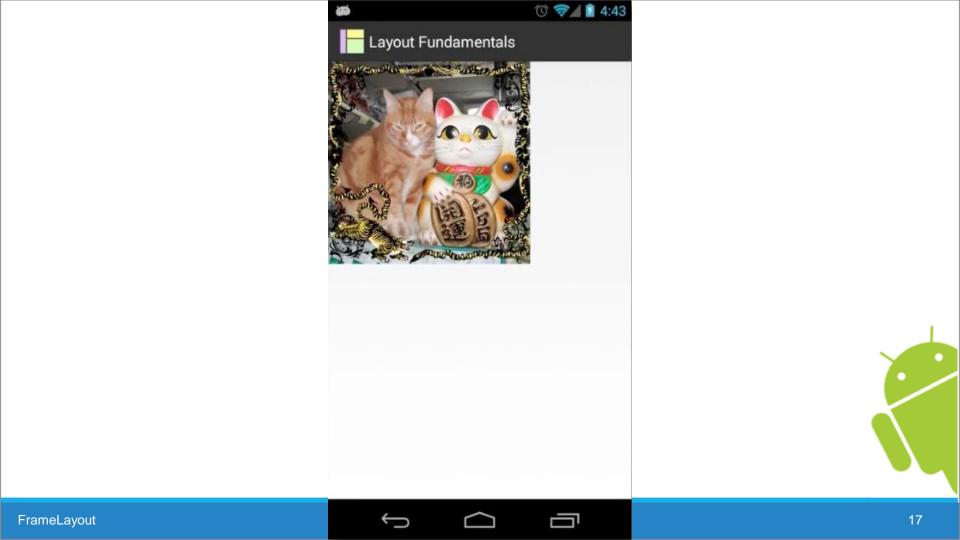




Frame

```
<FrameLayout</pre>
    android:layout width="match parent"
    android:layout height="match parent">
    <ImageView</pre>
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:src="@drawable/cat" />
    <ImageView</pre>
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:src="@drawable/tiger frame" />
</FrameLayout>
```

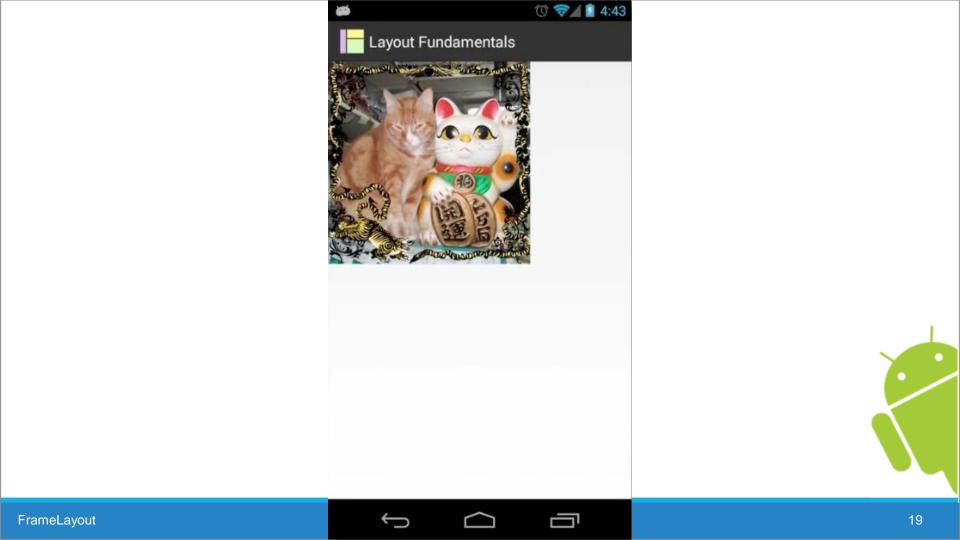




android:foreground

```
<FrameLayout
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:foreground="@drawable/tiger_frame">
    <ImageView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:src="@drawable/cat" />
</FrameLayout>
```

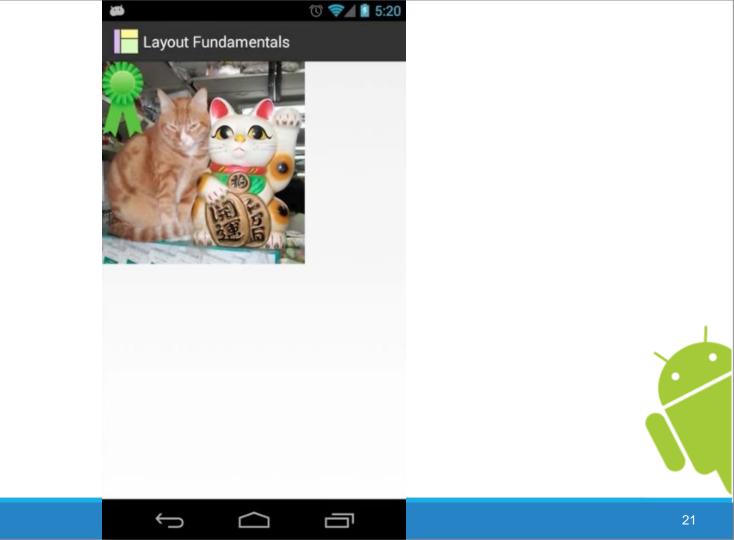




Non-frame Foreground

```
<FrameLayout</pre>
    android:layout width="wrap content"
    android:layout height="wrap content">
    <ImageView</pre>
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:src="@drawable/cat" />
    <ImageView</pre>
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:src="@drawable/award ribbon" />
</FrameLayout>
```

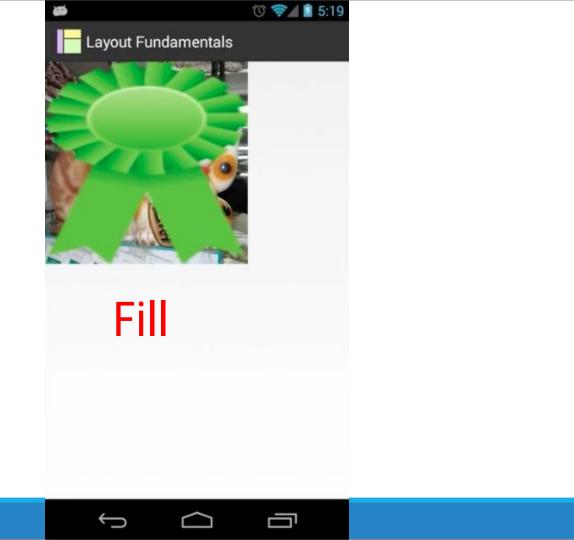




android:foreground

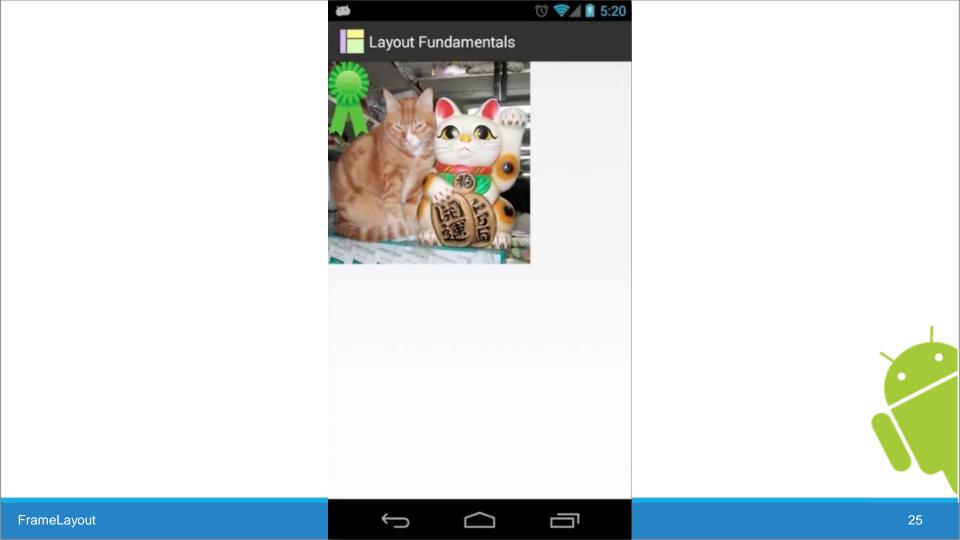
```
<FrameLayout
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:foreground="@drawable/award_ribbon">
    <ImageView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:src="@drawable/cat" />
</FrameLayout>
```





android:foregroundGravity





Summary

- Overlapping views
- Position child views with
 - android:layout_gravity
 - Android:layout_margin
 - android:foreground
 - o android:foregroundGravity



