FrameLayout

Layout
Fundamentals

Overlapping Views

```
<FrameLayout
    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>
```

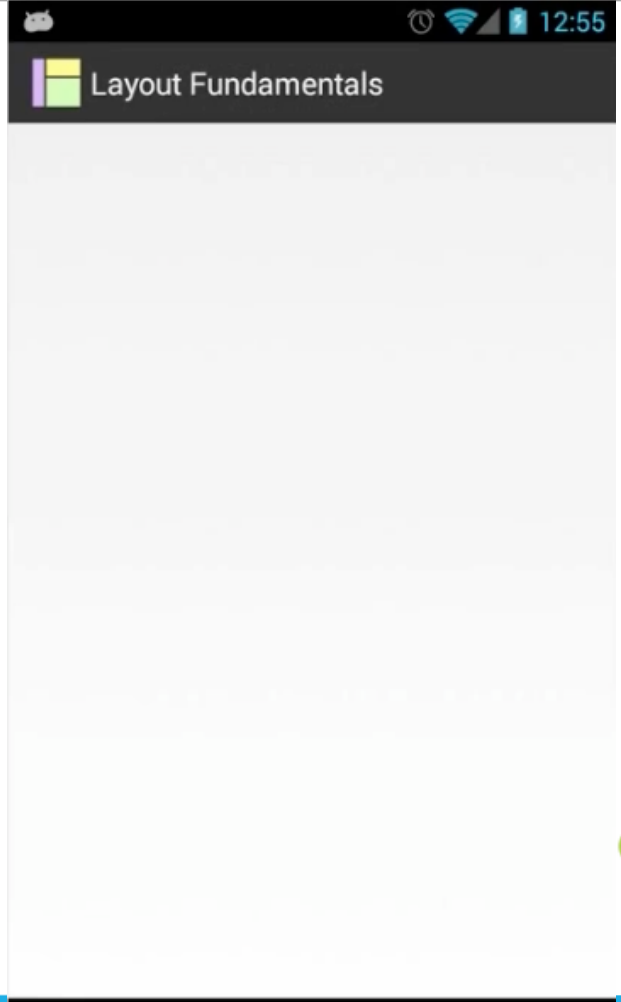
res/values/colors.xml

```
<resources>
    <color name=”blue”>#9cf</color>
    <color name=”purple”>#c9f</color>
</resources>
```

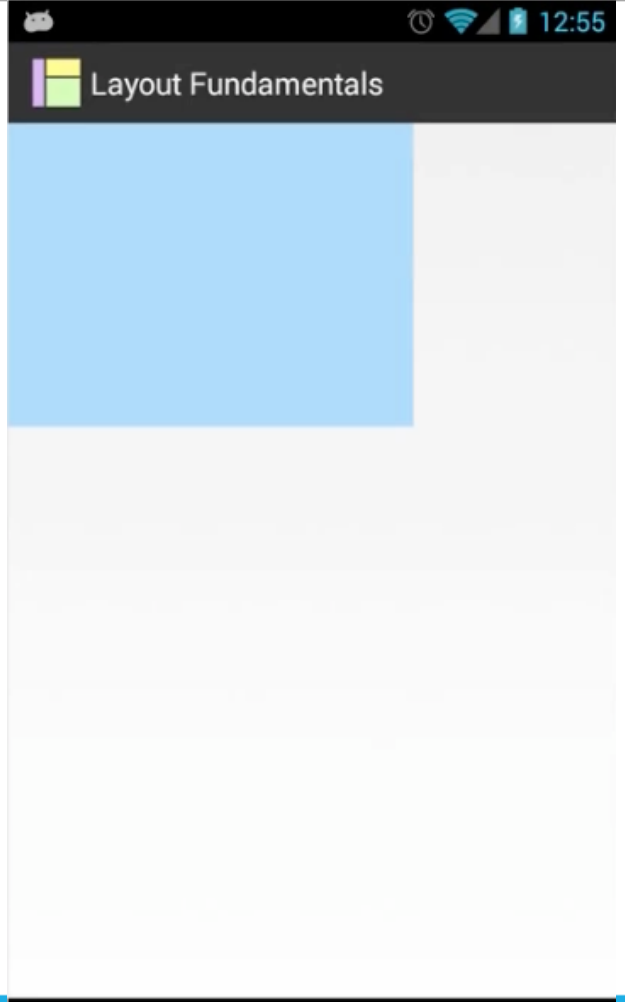
Overlapping Views

```
<FrameLayout
    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>
```

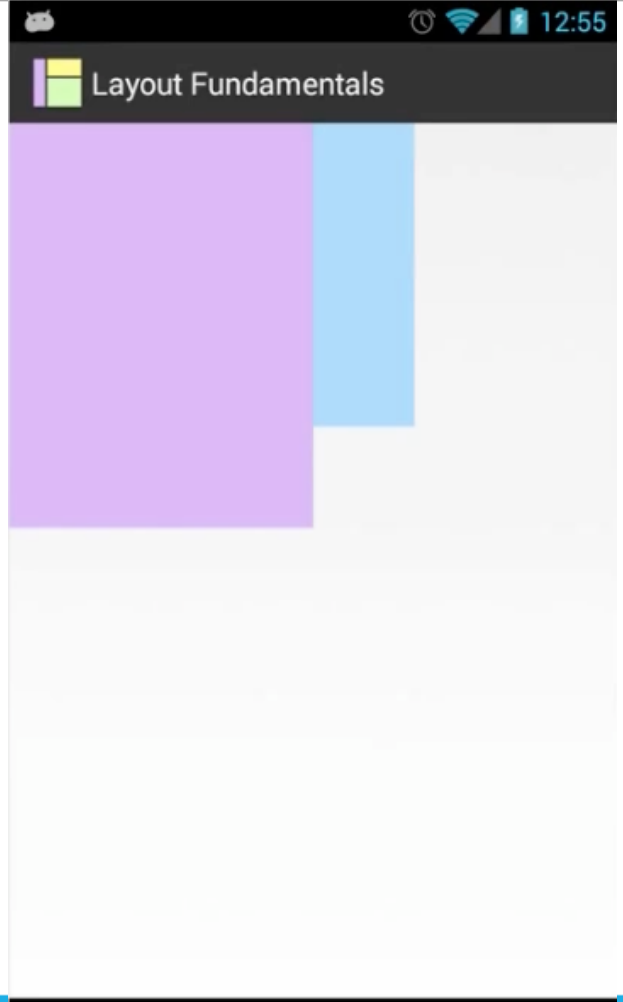
```
<FrameLayout
    android:layout_width=”match_parent”
    android:layout_height=”match_parent”>




</FrameLayout>
```



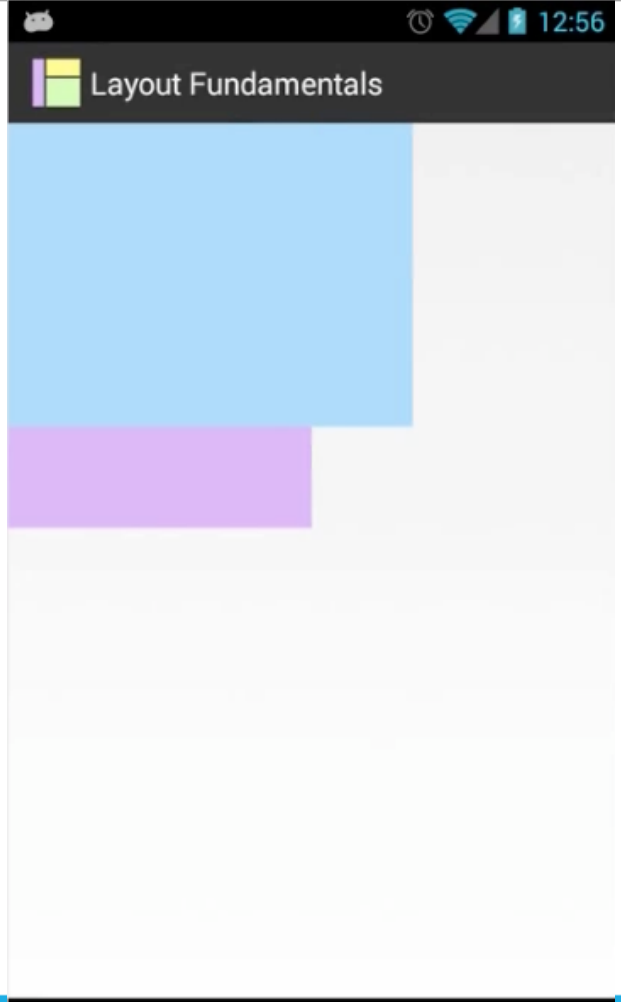
```
<FrameLayout
    android:layout_width=”match_parent”
    android:layout_height=”match_parent”>
    <View
        android:layout_width=”240dp”
        android:layout_height=”180dp”
        android:background=”@color/blue” />


</FrameLayout>
```



```
<FrameLayout
    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>
```

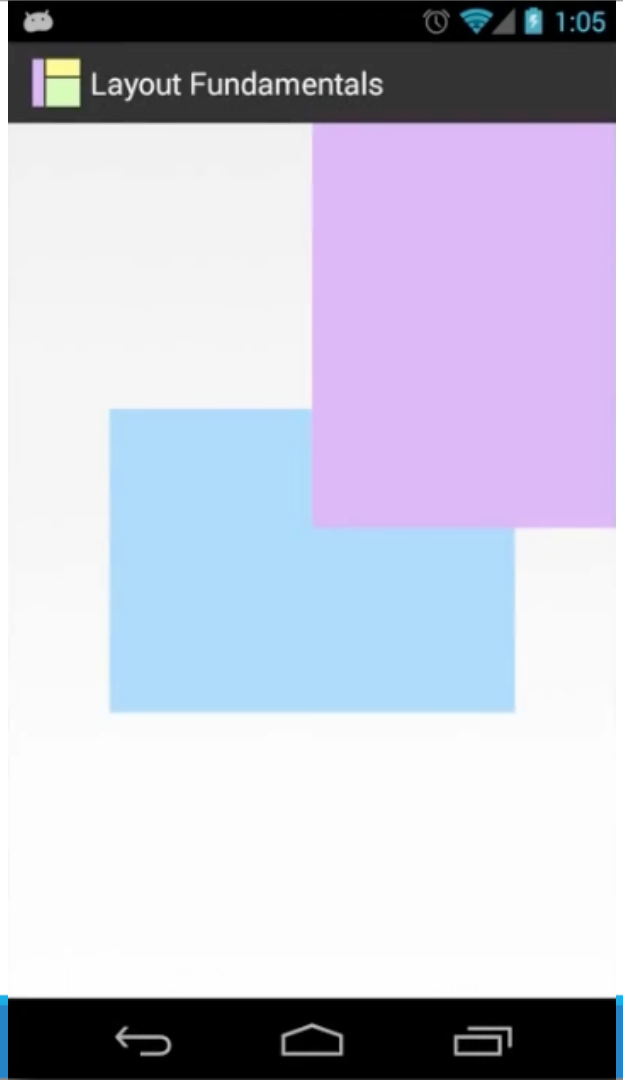


```
<FrameLayout
    android:layout_width=”match_parent”
    android:layout_height=”match_parent”>
    <View
        android:layout_width=”180dp”
        android:layout_height=”240dp”
        android:background=”@color/purple” />
    <View
        android:layout_width=”240dp”
        android:layout_height=”180dp”
        android:background=”@color/blue” />
</FrameLayout>
```



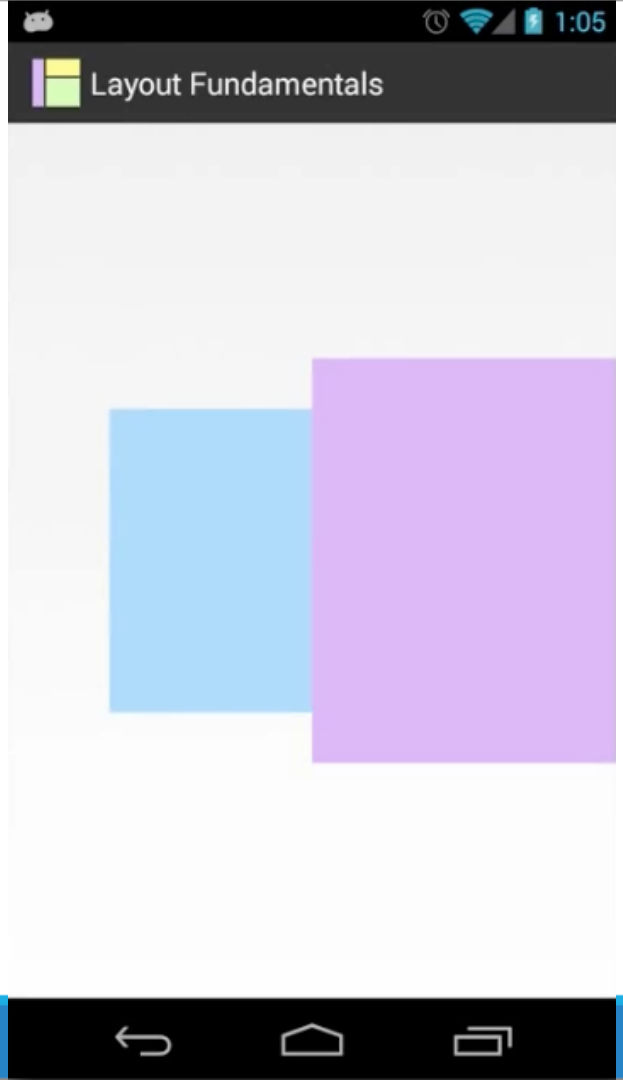
Gravity

```
<FrameLayout
    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>
```


1:05
Layout Fundamentals

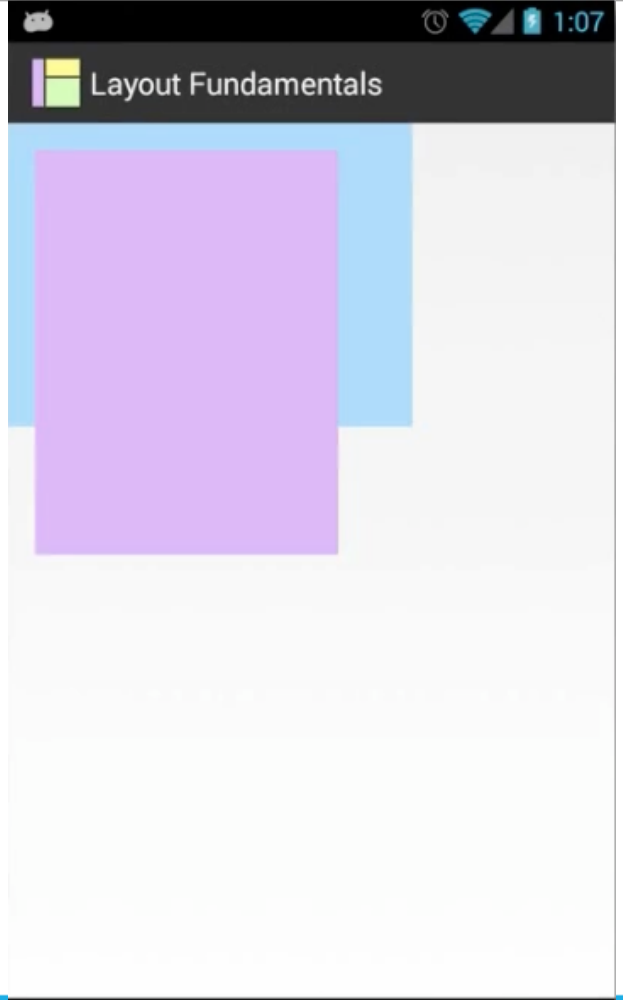
Gravity

```
<FrameLayout
    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>
```


1:05
Layout Fundamentals

Margin

```
<FrameLayout
    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>
```


1:07
Layout Fundamentals

Frame

Frame

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

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Layout Fundamentals

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>
```

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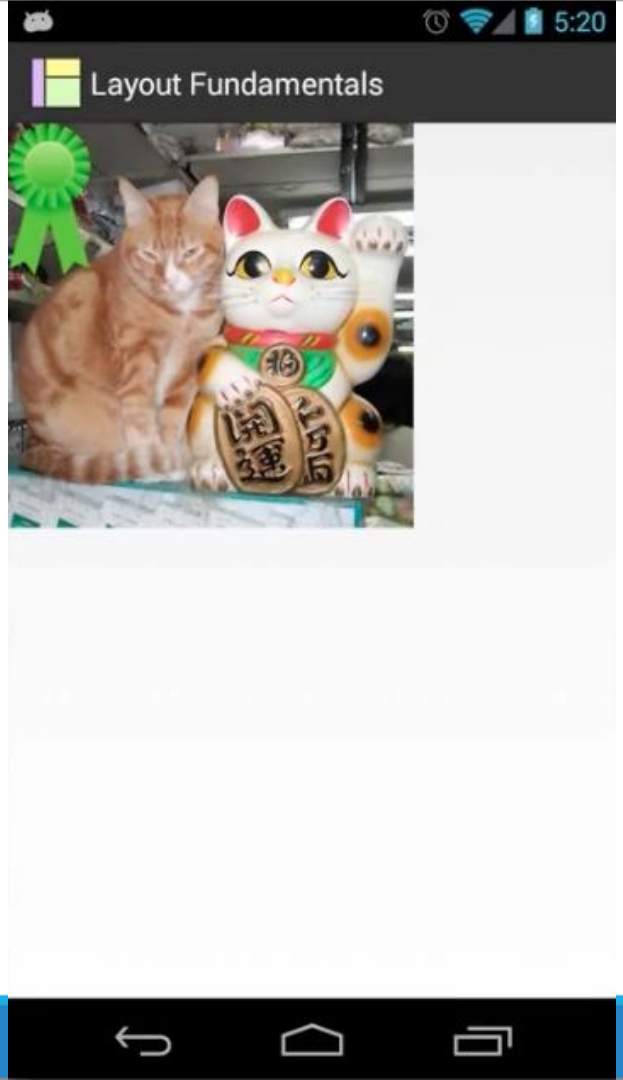
Layout Fundamentals

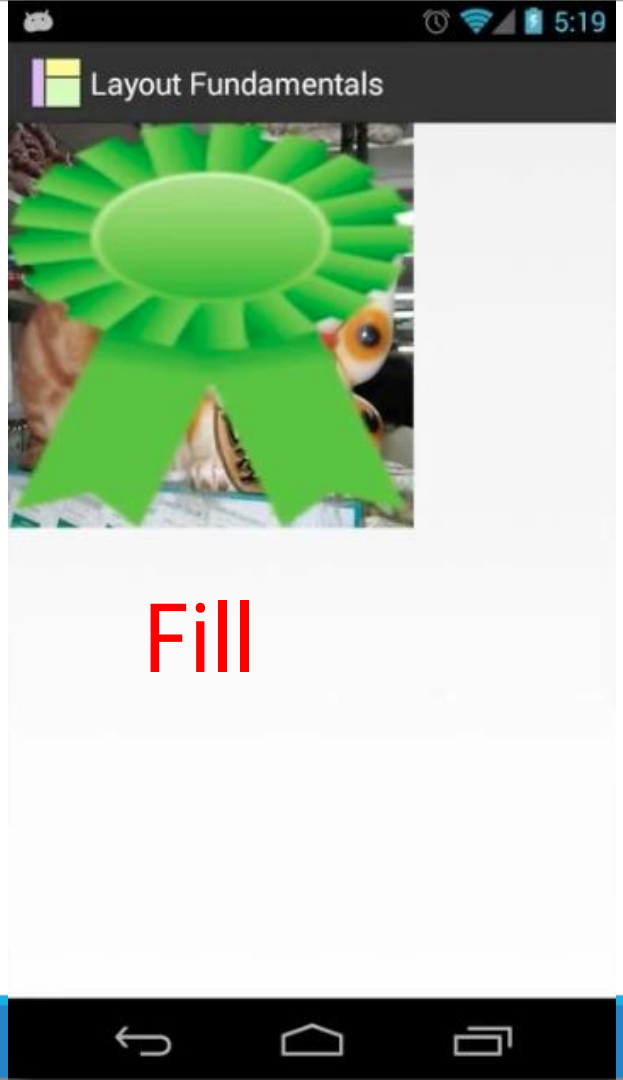
Non-frame Foreground

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


5:20
Layout Fundamentals

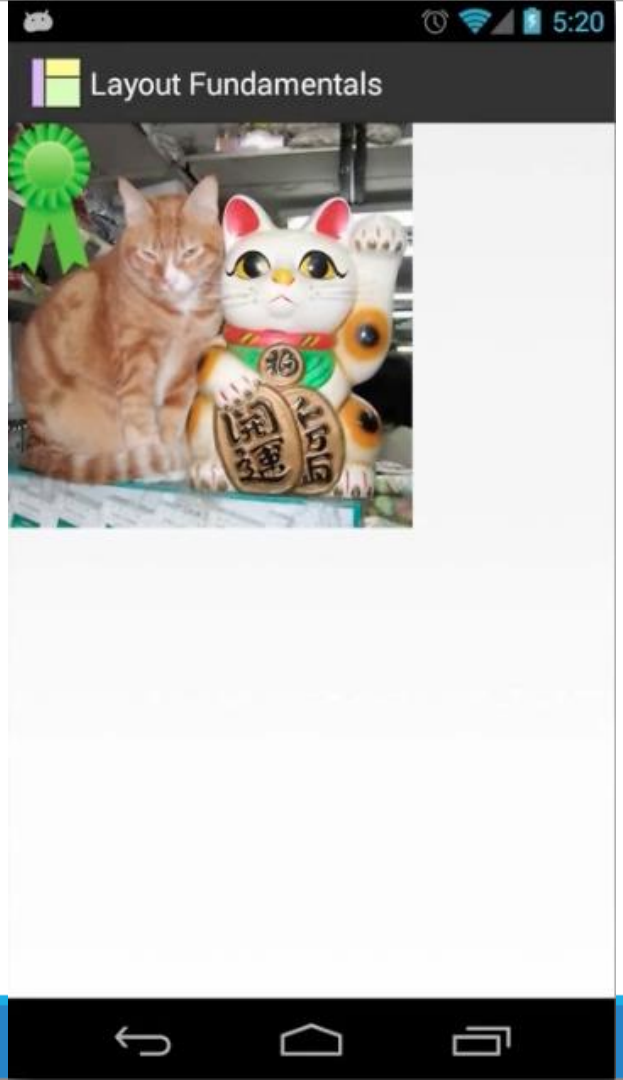
android:foreground

```
<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>
```


5:19
Layout Fundamentals
Fill

android:foregroundGravity

```
<FrameLayout
    android:layout_width=”wrap_content”
    android:layout_height=”wrap_content”
    android:foreground=”@drawable/award_ribbon”
    android:foregroundGravity=”top|left”>
    <ImageView
        android:layout_width=”wrap_content”
        android:layout_height=”wrap_content”
        android:src=”@drawable/cat” />
</FrameLayout>
```


5:20
Layout Fundamentals

Summary

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

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