



RelativeLayout

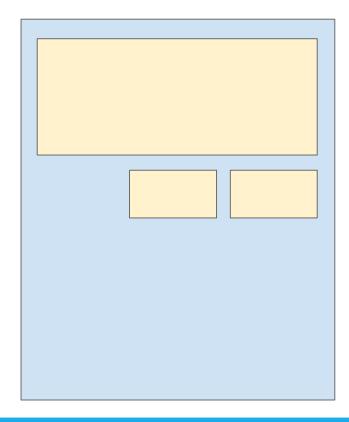
Layout Fundamentals

#### **Overview**

- What is RelativeLayout?
- Relative Positioning
- Relative Alignment
- Missing Views



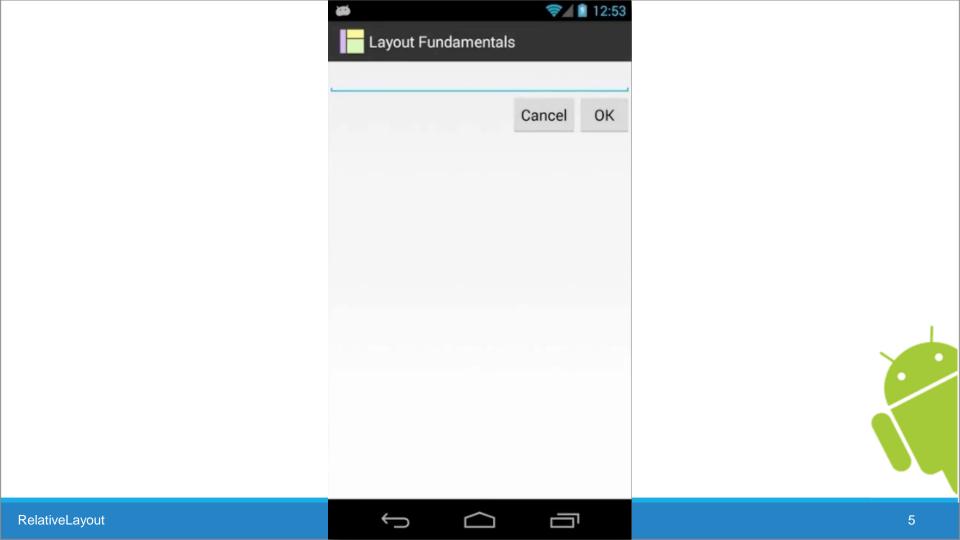
## RelativeLayout





## Relative Positioning





XML Attributes	XML Attributes		
Attribute Name		Description	
android:layout_abo	ve	Positions the bottom edge of this view above the given anchor view ID.	
android:layout_alig	nBaseline	Positions the baseline of this view on the baseline of the given anchor view ID.	
android:layout_alig	nBottom	Makes the bottom edge of this view match the bottom edge of the given anchor view ID.	
android:layout_alig	nEnd	Makes the end edge of this view match the end edge of the given anchor view ID.	
android:layout_alig	nLeft	Makes the left edge of this view match the left edge of the given anchor view ID.	
android:layout_alig	nParentBottom	If true, makes the bottom edge of this view match the bottom edge of the parent.	
android:layout_alig	nParentEnd	If true, makes the end edge of this view match the end edge of the parent.	
android:layout_alig	nParentLeft	If true, makes the left edge of this view match the left edge of the parent.	
android:layout_alig	nParentRight	If true, makes the right edge of this view match the right edge of the parent.	
android:layout_alig	nParentStart	If true, makes the start edge of this view match the start edge of the parent.	
android:layout_alig	nParentTop	If true, makes the top edge of this view match the top edge of the parent.	
android:layout_alig	nRight	Makes the right edge of this view match the right edge of the given anchor view ID.	
android:layout_alig	nStart	Makes the start edge of this view match the start edge of the given anchor view ID.	
android:layout_alig	пТор	Makes the top edge of this view match the top edge of the given anchor view ID.	
android:layout_alig	nWithParentIfMissing	If set to true, the parent will be used as the anchor when the anchor cannot be be found for layout_toLeftOf, layout_toRightOf, etc.	
android:layout_belo	ow	Positions the top edge of this view below the given anchor view ID.	
android:layout_cent	terHorizontal	If true, centers this child horizontally within its parent.	
android:layout_cent	terInParent	If true, centers this child horizontally and vertically within its parent.	
android:layout_centerVertical android:layout_toEndOf android:layout_toLeftOf		If true, centers this child vertically within its parent.	
		Positions the start edge of this view to the end of the given anchor view ID.	
		Positions the right edge of this view to the left of the given anchor view ID.	
android:layout_toRightOf		Positions the left edge of this view to the right of the given anchor view ID.	
android:layout_toSi	tartOf	Positions the end edge of this view to the start of the given anchor view ID.	

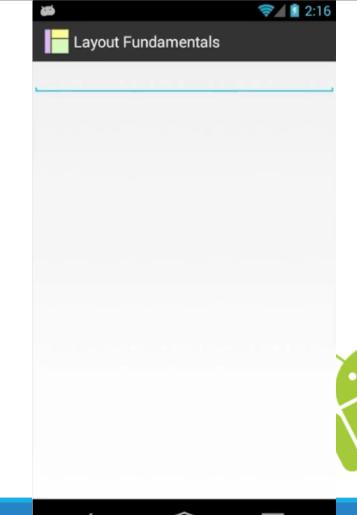
## **Relative**

- Position
- Alignment

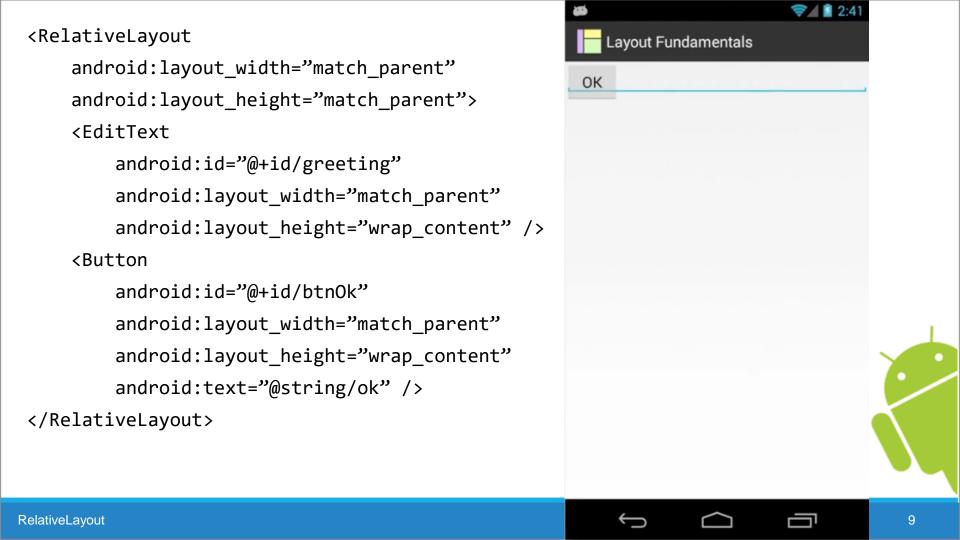
#### To

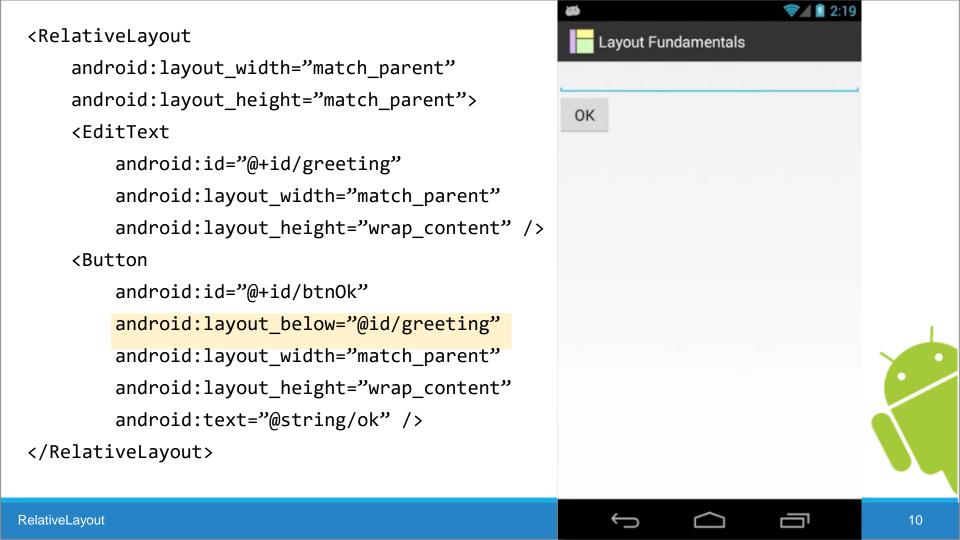
- Parent
- Sibling

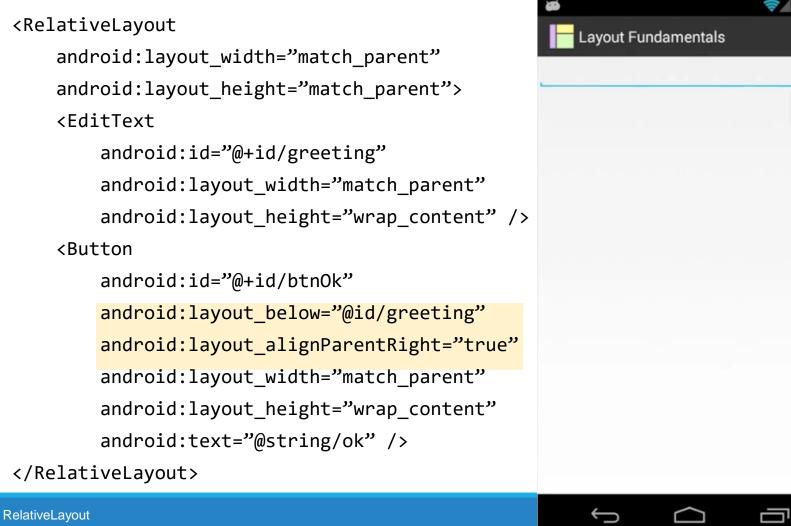


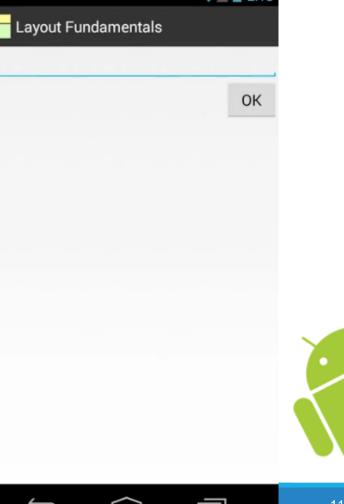


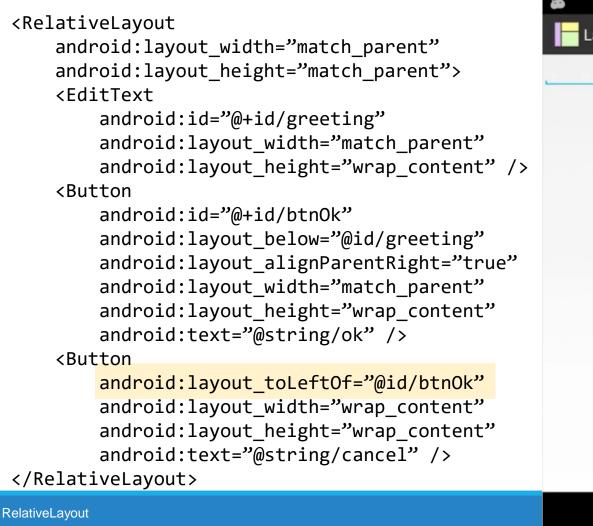
<RelativeLayout
 android:layout\_width="match\_parent"
 android:layout\_height="match\_parent">
 <EditText
 android:id="@+id/greeting"
 android:layout\_width="match\_parent"
 android:layout\_height="wrap\_content" />
</RelativeLayout>

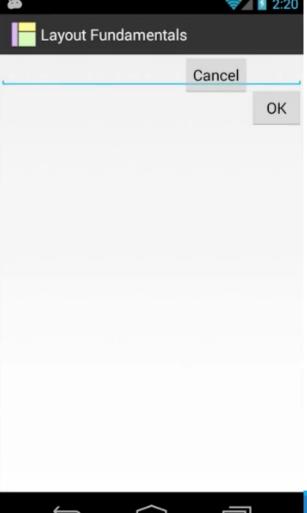


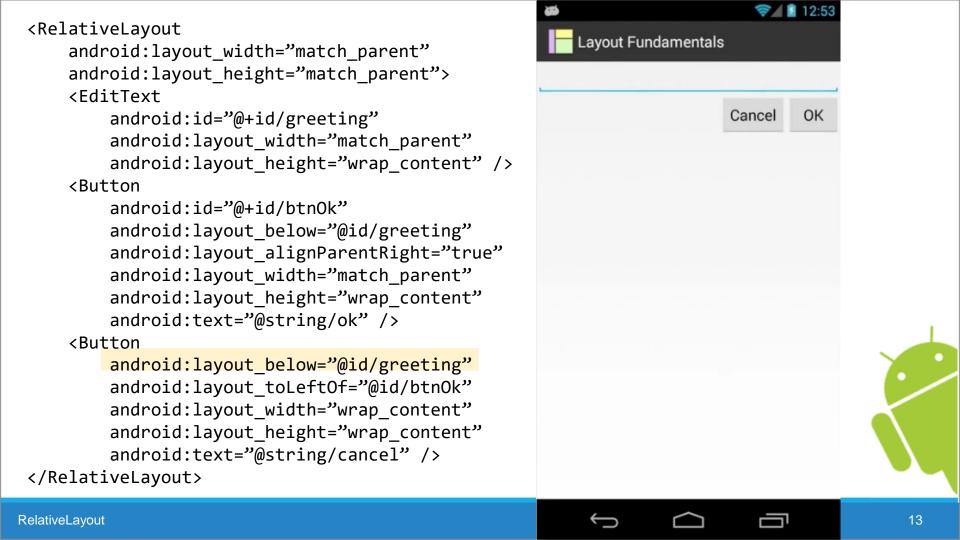












## **Relative to Sibling**

```
android:layout_above
```

android:layout\_below

android:layout\_toLeftOf

android:layout toStartOf

android:layout toRightOf

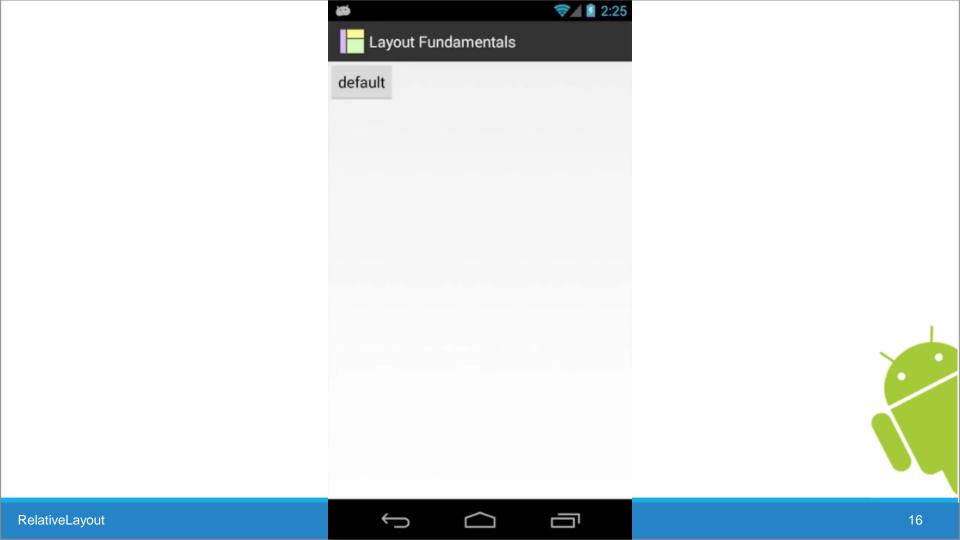
android:layout\_toEndOf

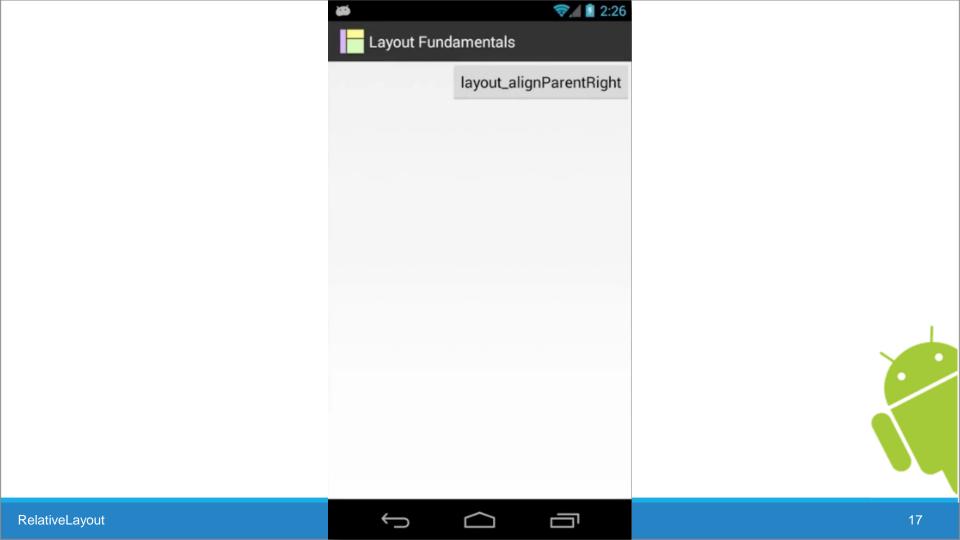


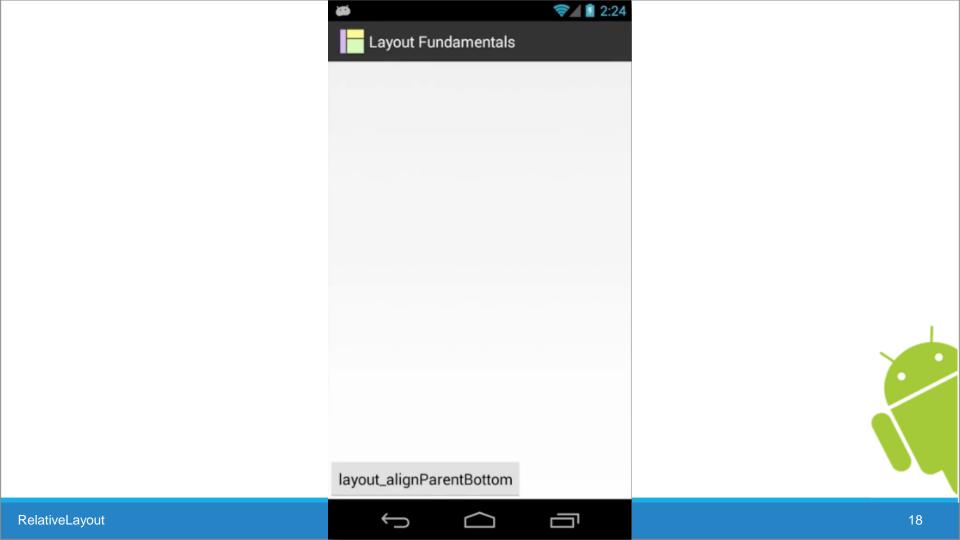
### **Relative to Parent**

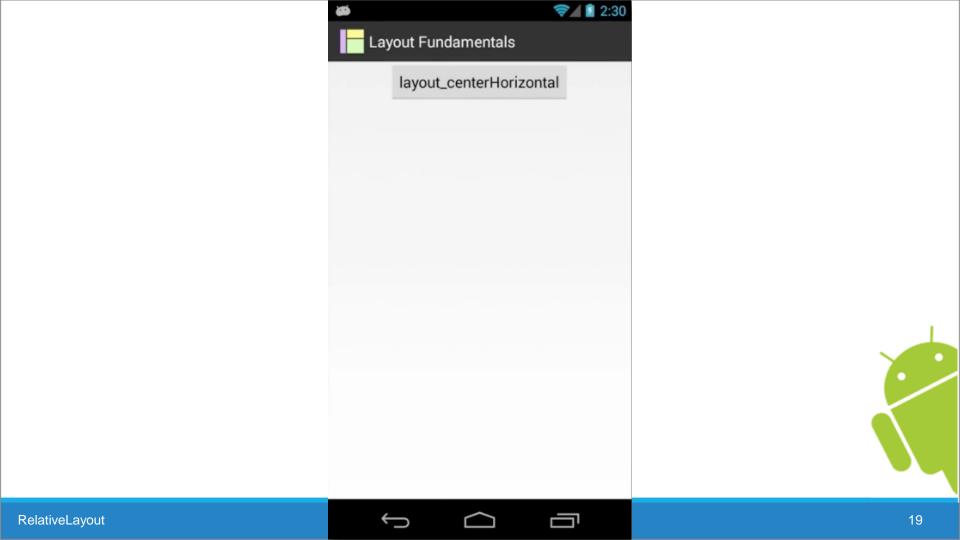
```
android:layout alignParentTop
android:layout_alignParentBottom
android:layout alignParentLeft
android:layout alignParentRight
android: layout centerHorizontal
android:layout centerVertical
android:layout centerInParent
```

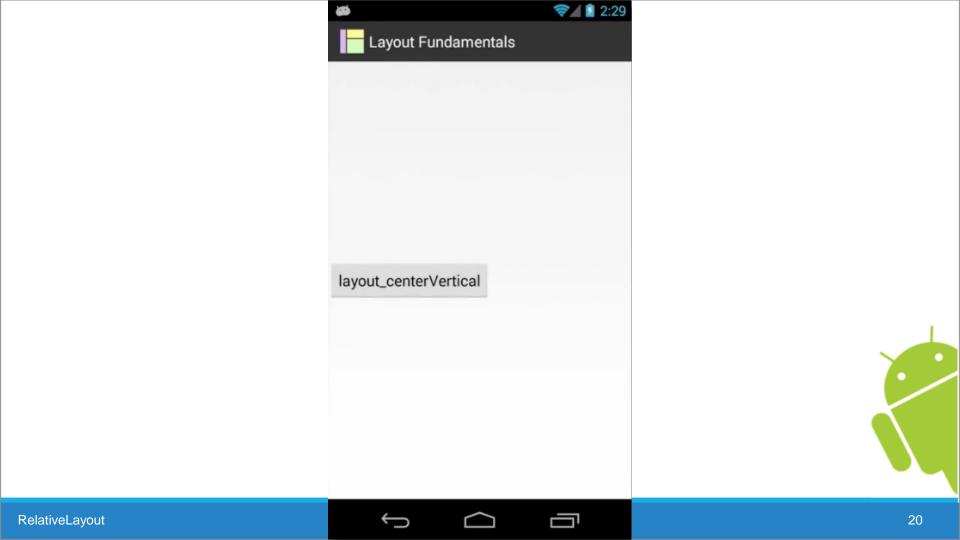


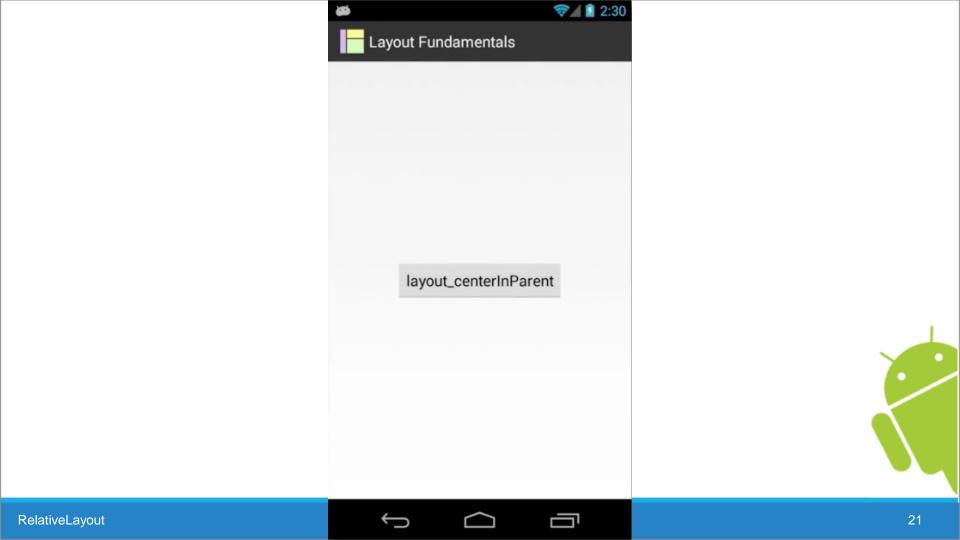












# Relative Alignment



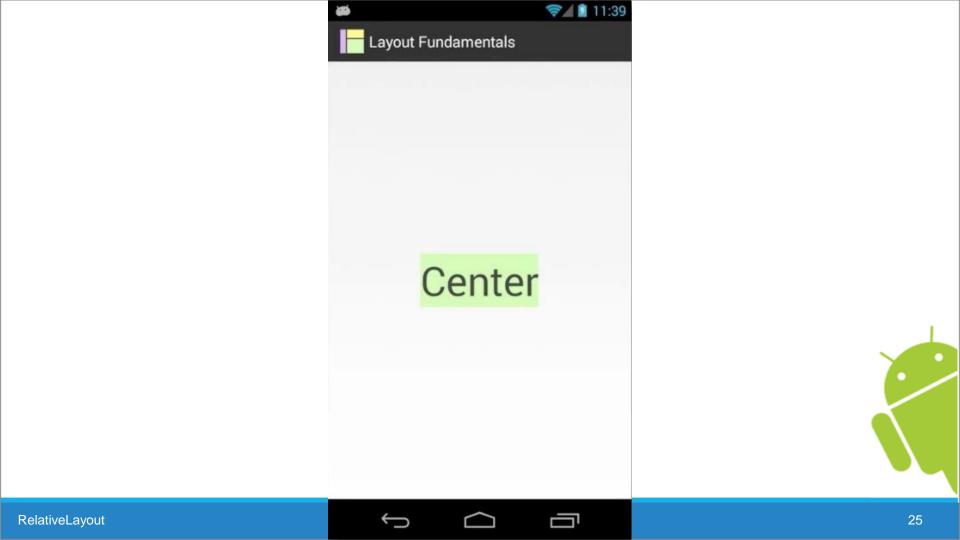






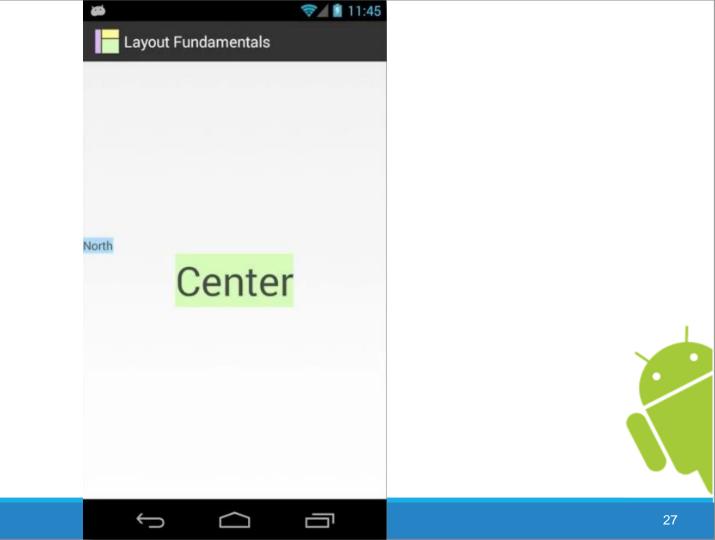
#### Center

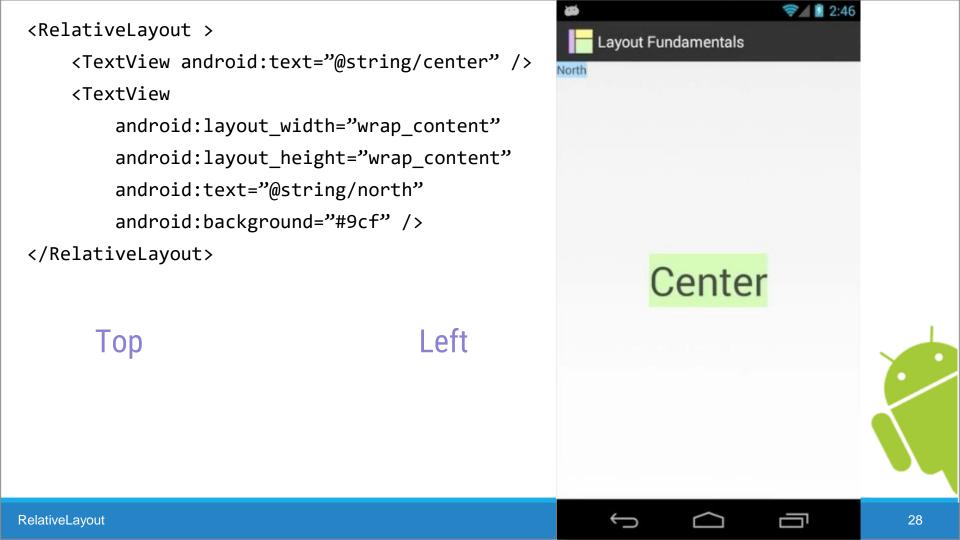
```
<RelativeLayout
   android:layout width="match parent"
   android:layout height="match parent">
        <TextView
            android:id="@+id/center"
            android:layout width="wrap content"
            android:layout height="wrap content"
            android:layout centerInParent="true"
            android:text="@string/center"
            android:textSize="48sp"
            android:background="#cf9" />
</RelativeLayout>
```

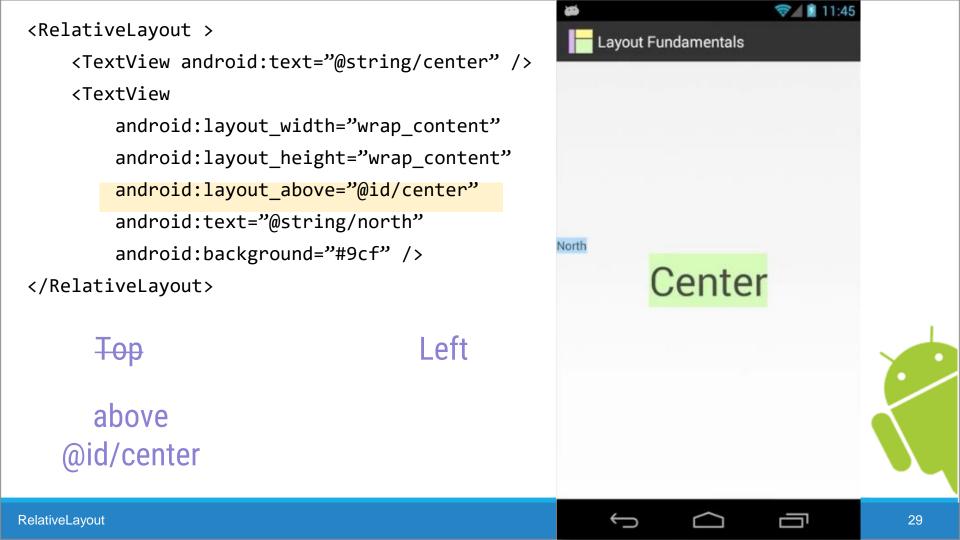


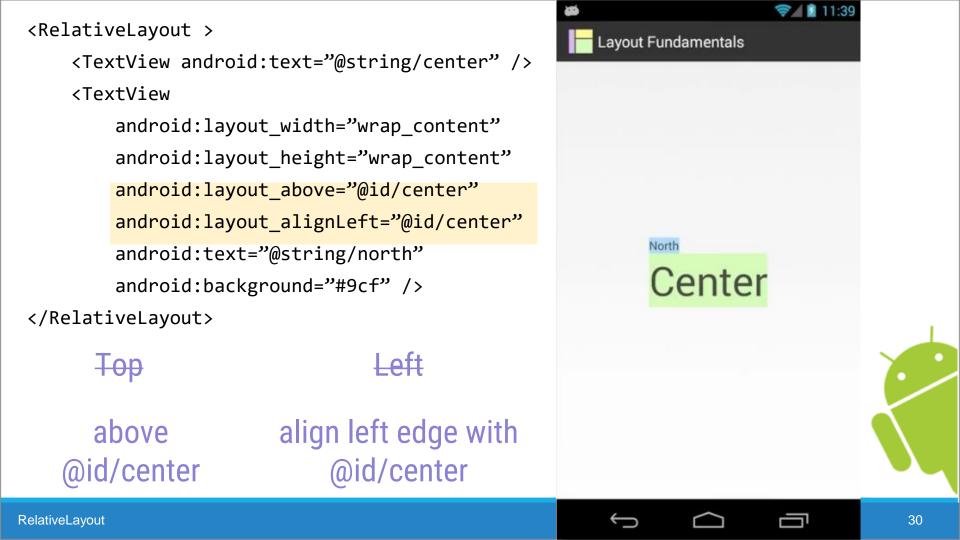
### North

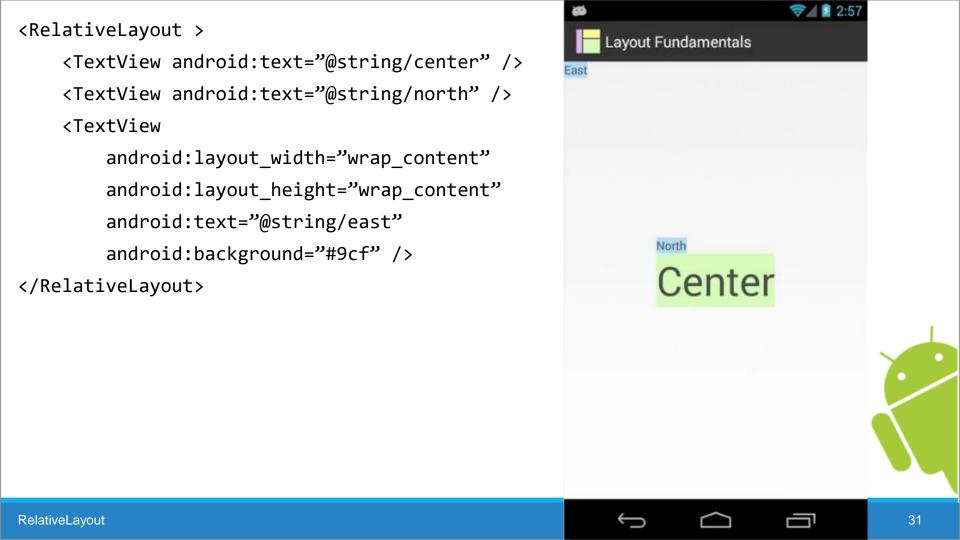


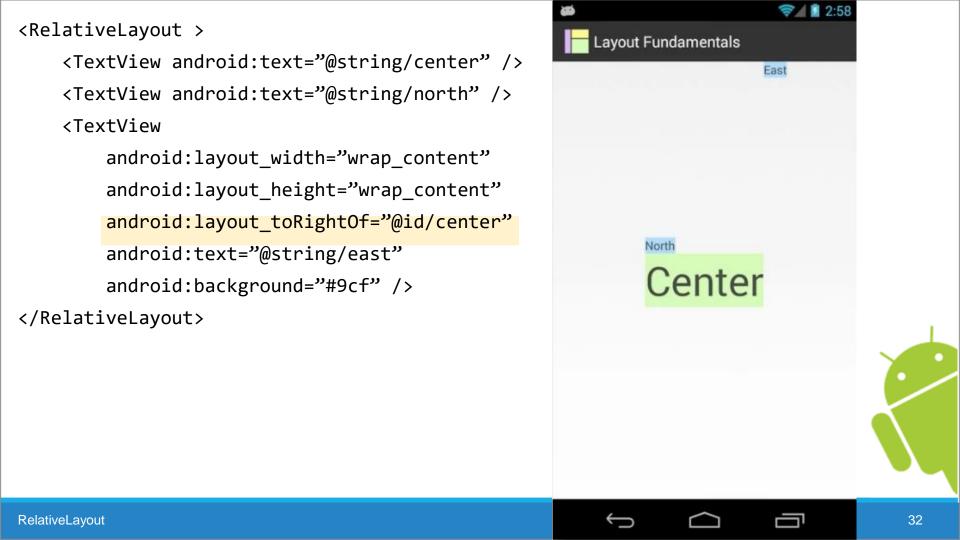


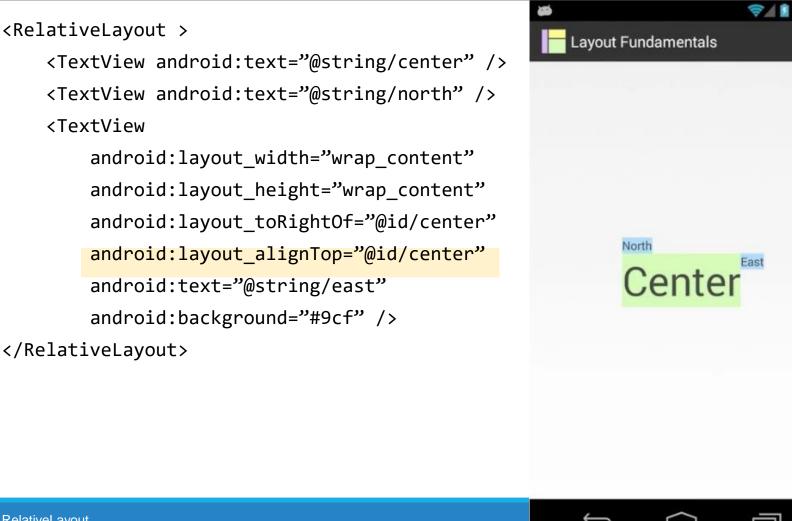




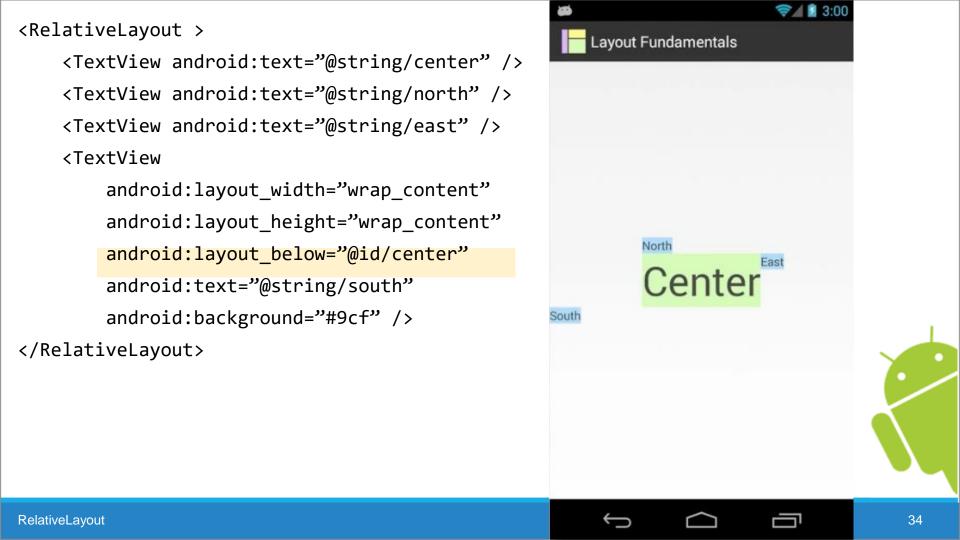




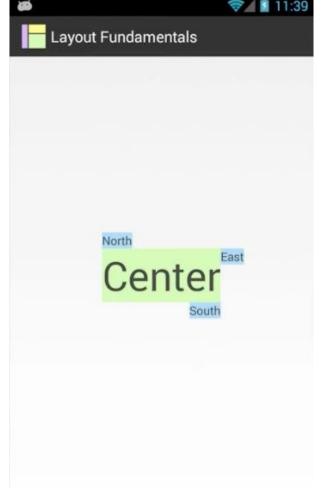


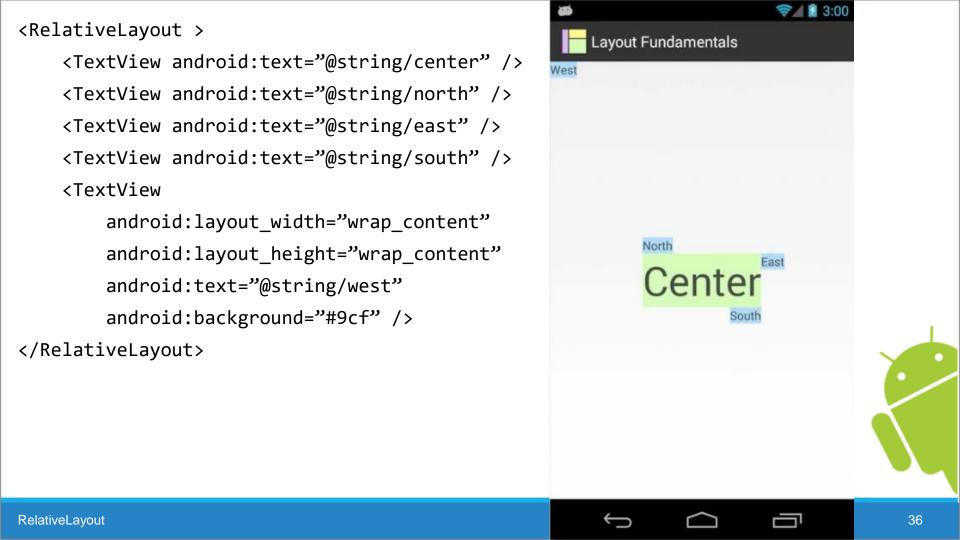






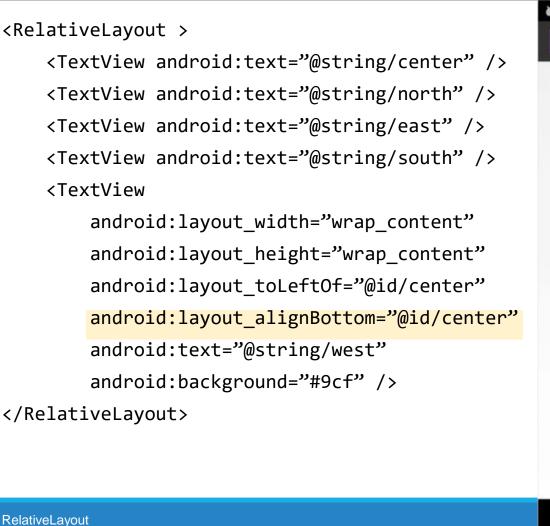
```
<RelativeLayout >
    <TextView android:text="@string/center" />
    <TextView android:text="@string/north" />
    <TextView android:text="@string/east" />
    <TextView
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout below="@id/center"
        android:layout alignRight="@id/center"
        android:text="@string/south"
        android:background="#9cf" />
</RelativeLayout>
RelativeLayout
```





```
<RelativeLayout >
                                                      Layout Fundamentals
    <TextView android:text="@string/center" />
                                                        West
    <TextView android:text="@string/north" />
    <TextView android:text="@string/east" />
    <TextView android:text="@string/south" />
    <TextView
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout_toLeftOf="@id/center"
        android:text="@string/west"
        android:background="#9cf" />
</RelativeLayout>
RelativeLayout
```

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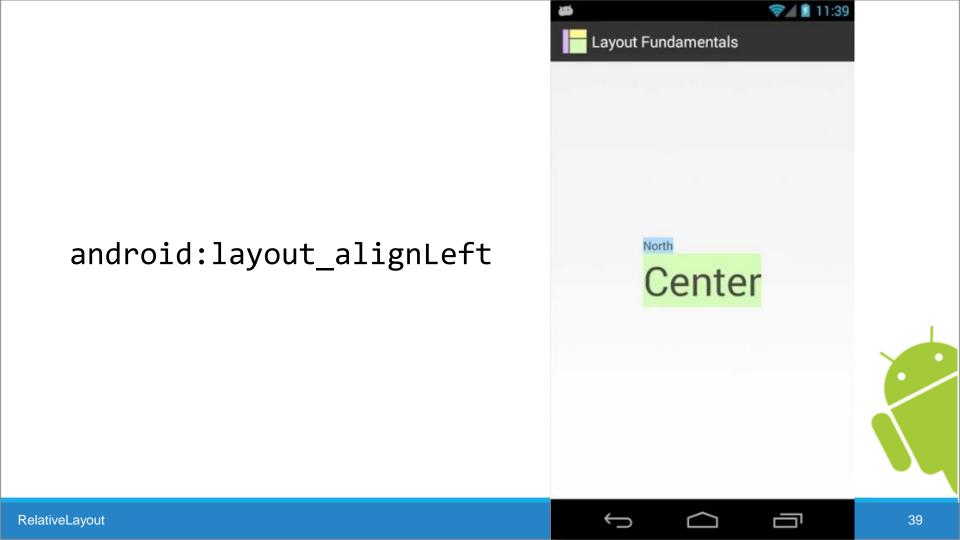


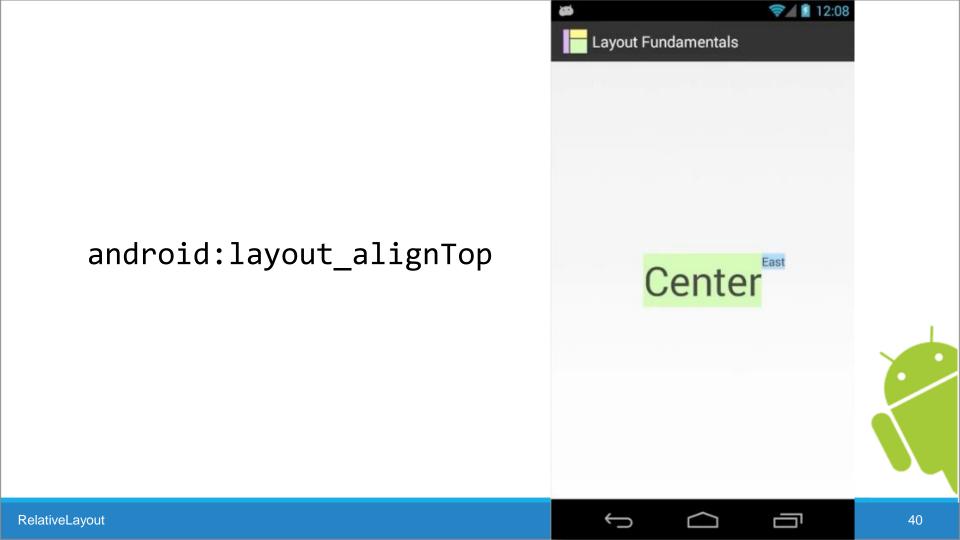


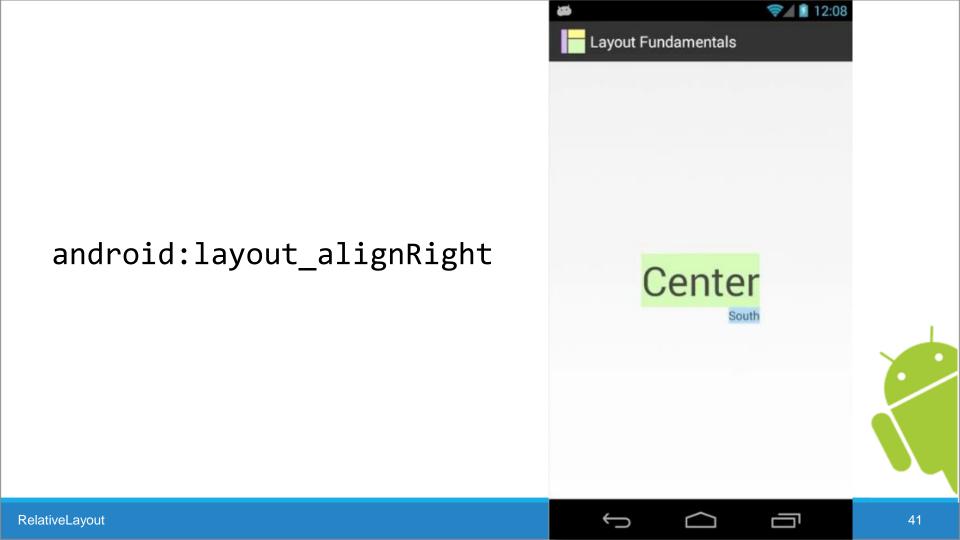


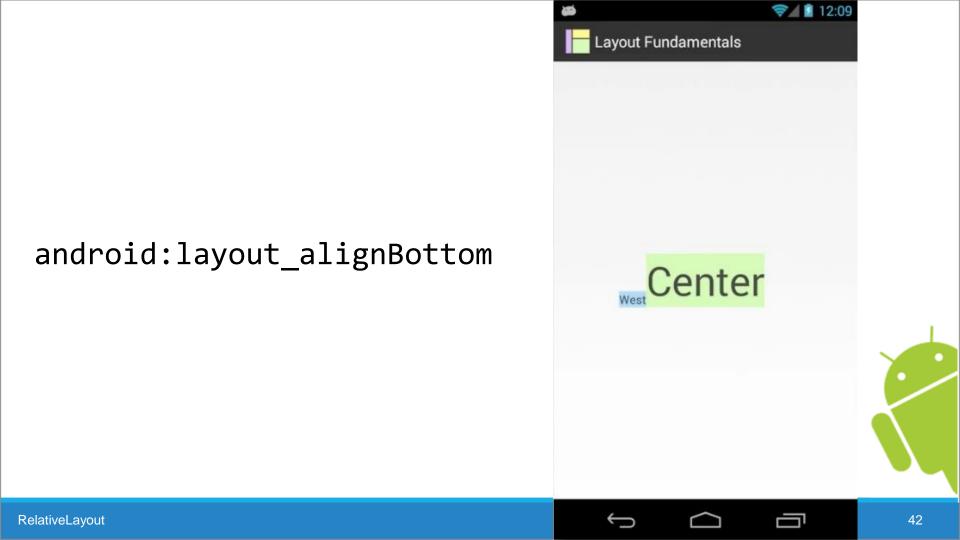


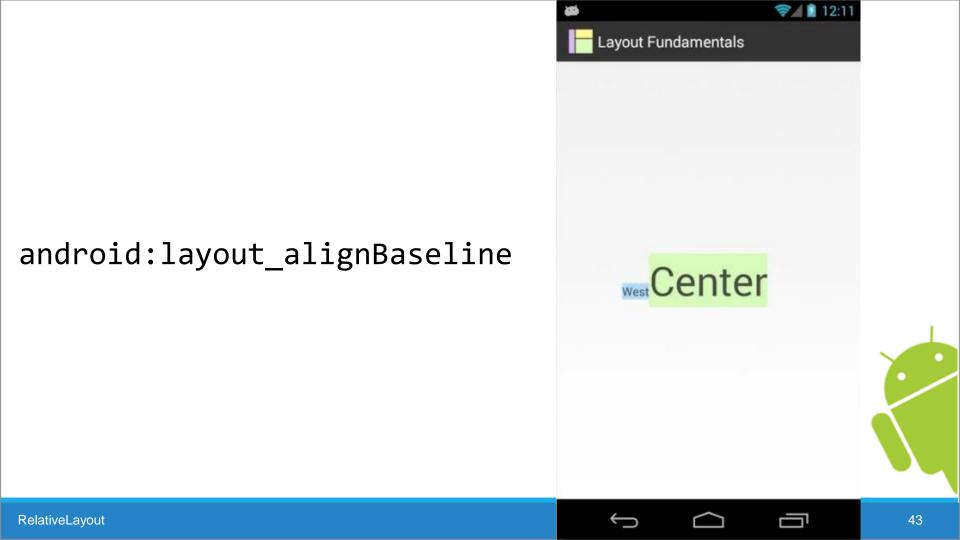


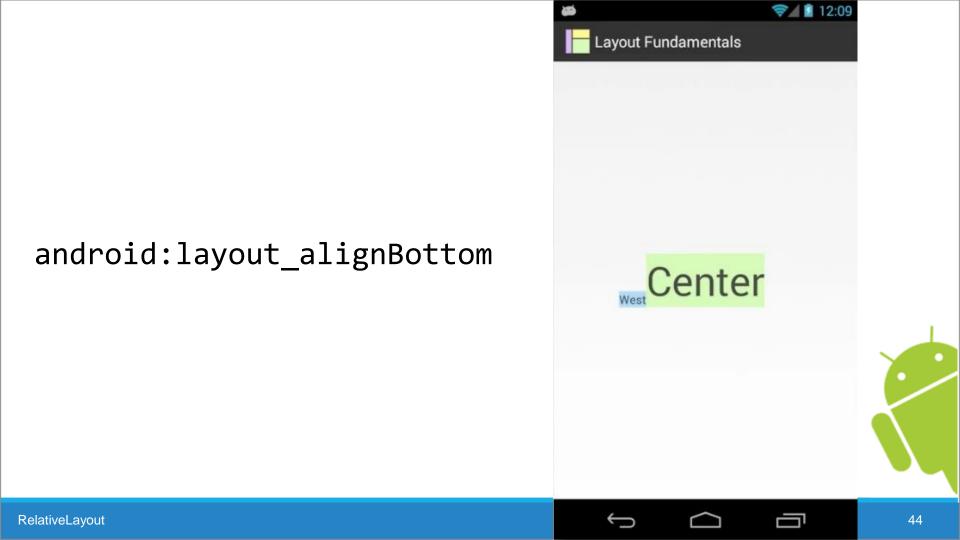


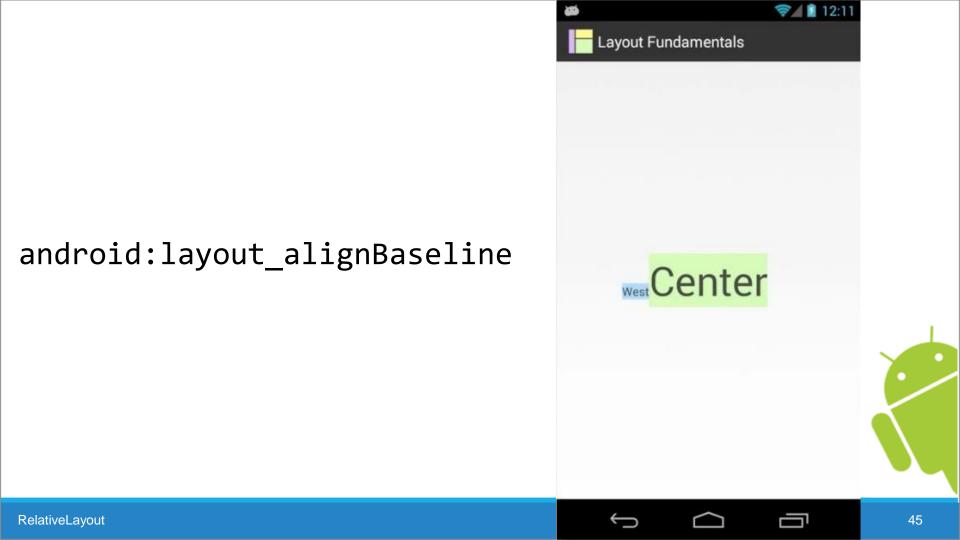












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android:layout\_alignBaseline



## **Relative Alignment**

```
android:layout_alignTop
```

android:layout\_alignBottom

android:layout\_alignLeft

android:layout alignRight

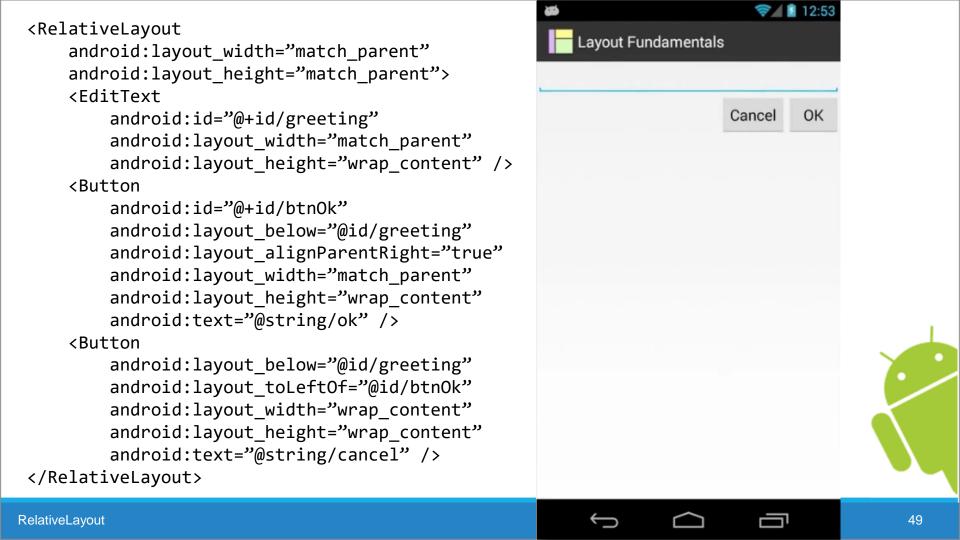
android:layout\_alignBaseLine

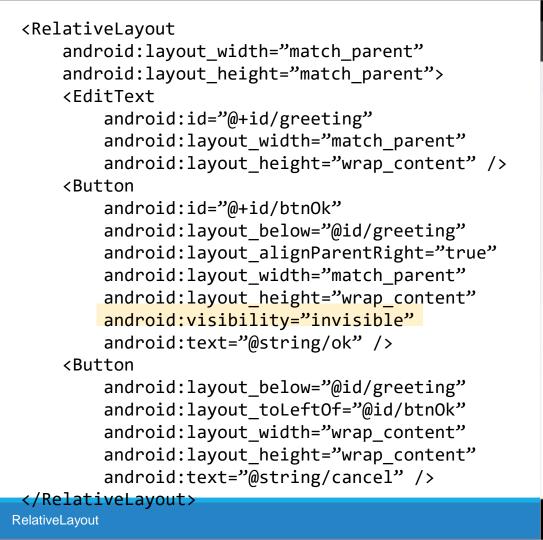


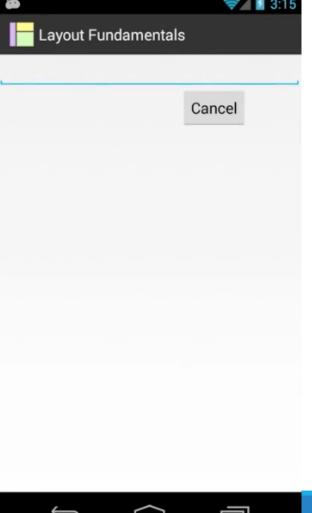
RelativeLayout 47

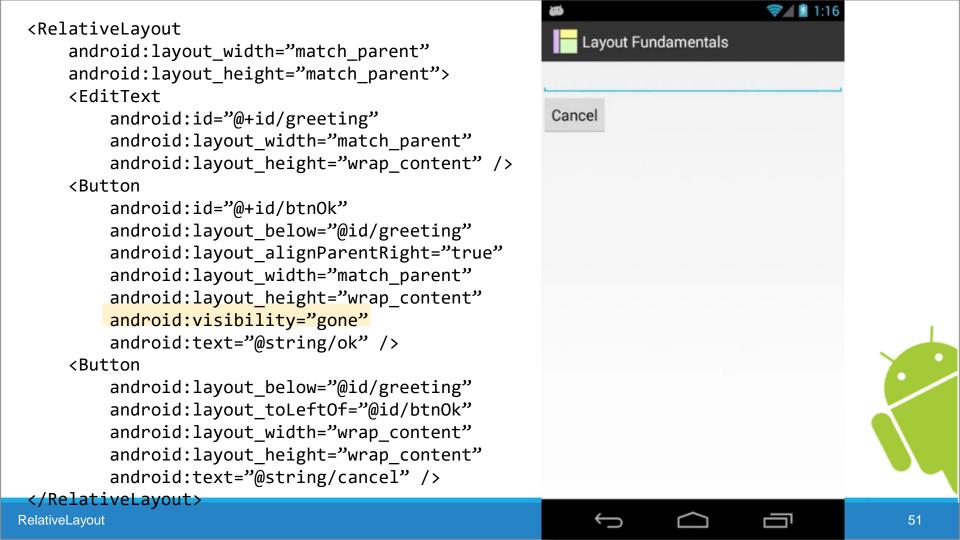
## Missing Views

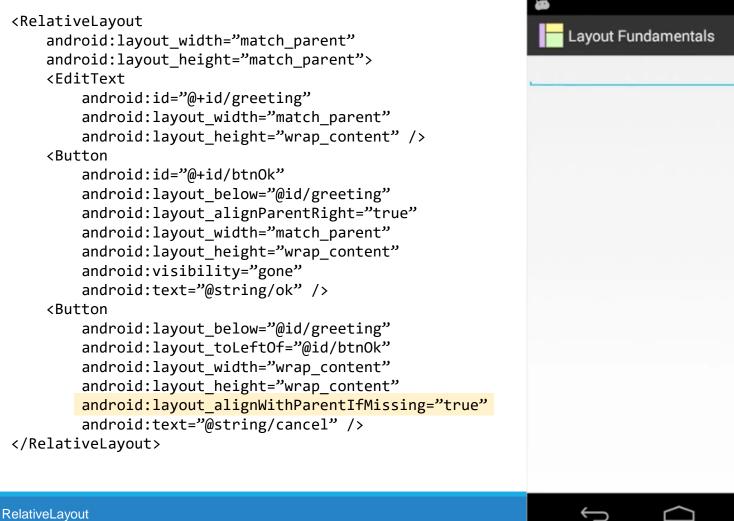


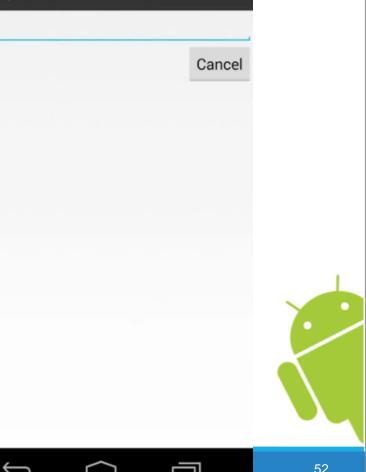












Default = top left

## Relative

- Position
- Alignment

## To

- Parent
- Sibling

a lign With Parent If Missing



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