Optimizing Your Layouts with Guidelines and Groups
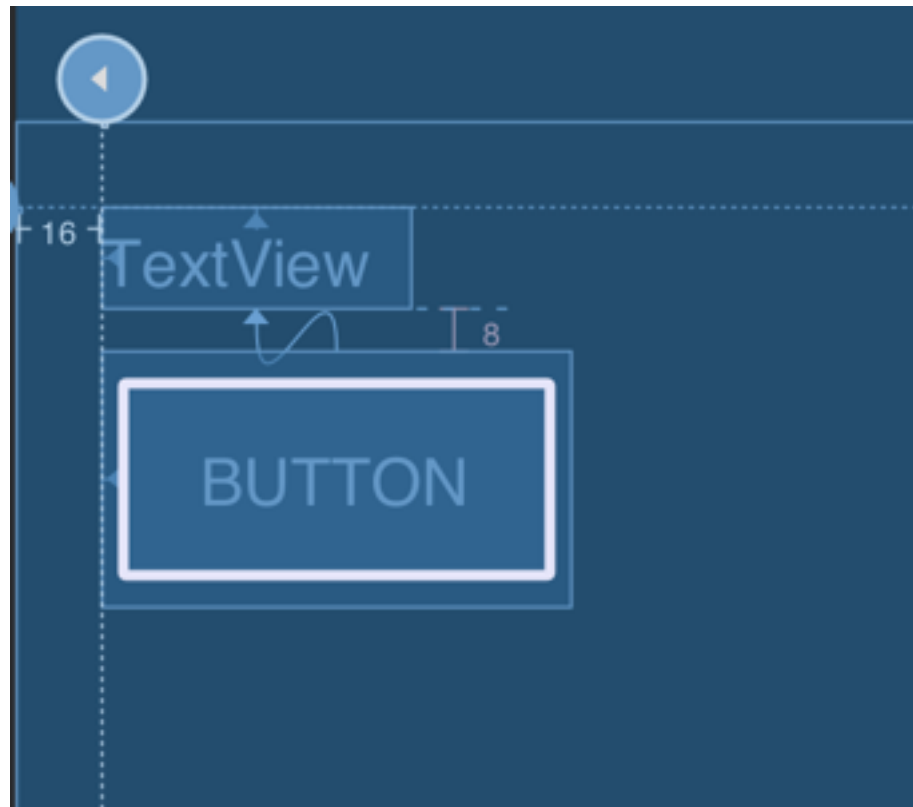
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Summary

In this module, you will learn about:

- Creating guidelines

- Creating groups

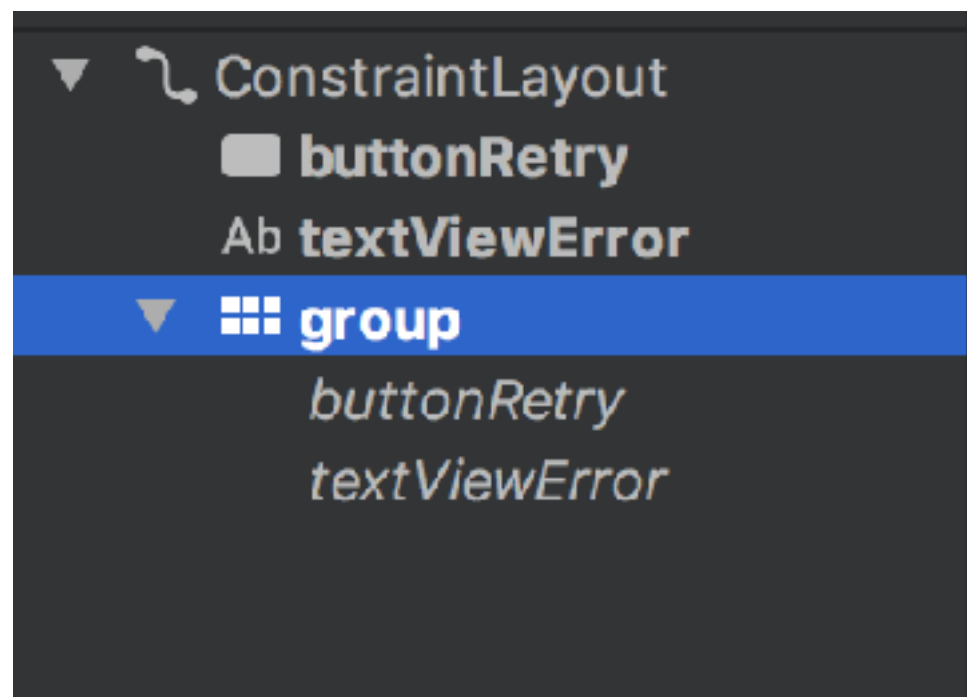A guideline is a visual guide which will not be seen at runtime

Used to align views

Horizontal or vertical

```xml
<android.support.constraint.Guideline
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/guidelineStart"
        app:layout_constraintGuide_begin="16dp"
        android:orientation="vertical"/>
```

Guideline defined in XML

Demo

Create a guideline and align views to the guideline

A group is a helper element that is used to group views together

Not to be confused with an Android ViewGroup

Used to set visibility of all elements

```xml
<android.support.constraint.Group
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/group"
        android:visibility="gone"
        app:constraint_referenced_ids="buttonRetry,textViewError"/>
```

ConstraintLayout group defined in XML

Demo

Create a group and change the visibility of the group

Summary

- **Guidelines**

- **Groups**