

The background is composed of several large, overlapping triangles in various colors: red, orange, yellow, green, blue, and purple. The triangles are separated by thin white lines, creating a dynamic, geometric pattern. The text "MotionLayout" is centered in a white, sans-serif font.

**MotionLayout**

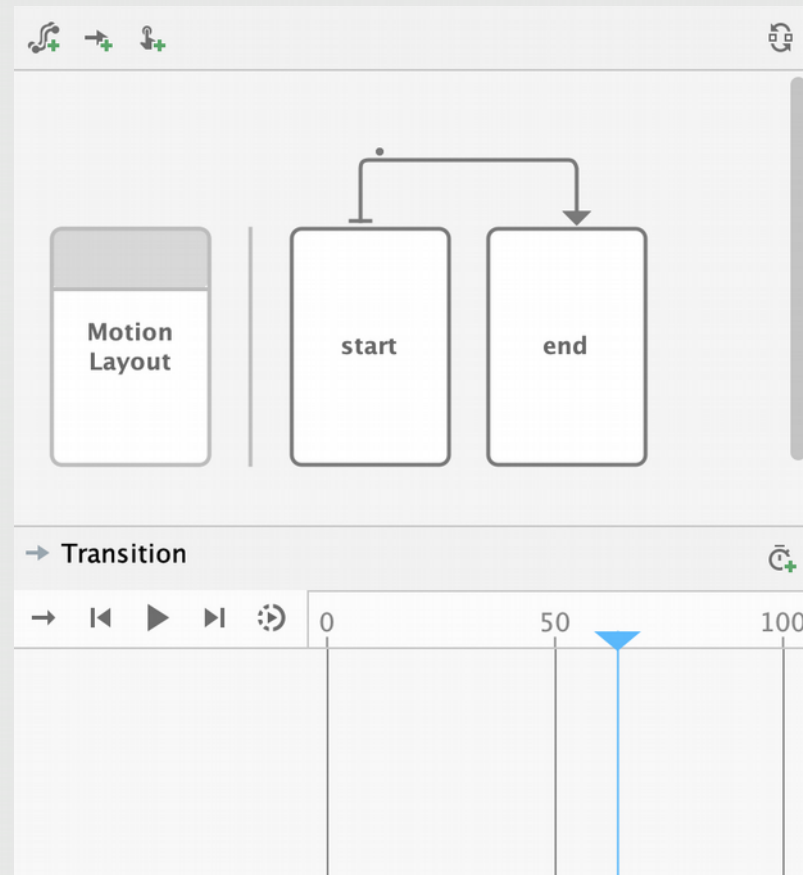
# What is MotionLayout?

- A New Layout System in Android With Built-In Support for Animation
- Subclass of ConstraintLayout

# How MotionLayout Works

- Has separate XML file aka motion scene
- Animates changes between end points

# How MotionLayout Works(2)





# How MotionLayout Works(3)



Diagram illustrating the MotionLayout workflow:

The diagram shows a **MotionLayout** container. Inside, there are two states: **start** (highlighted in blue) and **end**. A curved arrow indicates a transition from the **start** state to the **end** state.

Below the diagram, the **ConstraintSet ( start )** configuration is shown. It includes a table of constraints:

Constraint	ID	Source
✓	myImage	start

# How MotionLayout Works(4)

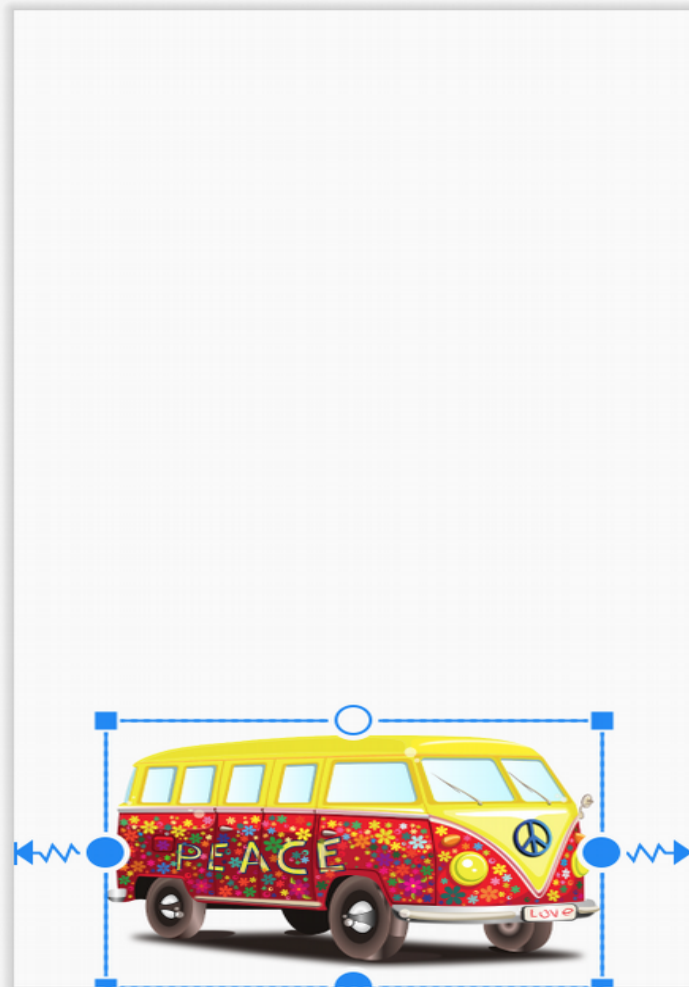


Diagram illustrating the MotionLayout workflow and constraints.

The top section shows the MotionLayout container, which contains a **start** state and an **end** state. The **end** state is highlighted in blue.

The bottom section shows the **ConstraintSet ( end )** configuration. It includes a table of constraints:

Constraint	ID	Source
✓	myImage	end

# Advantages

- Declarative animation (all in XML)
- No coding needed
- Visual editor
- Support for keyframes (Advanced motion)

# Prerequisites

- ConstraintLayout 2.0

```
dependencies {  
    implementation 'androidx.constraintlayout:constraintlayout:2.0.0-beta1'  
}
```