

过渡动画MotionLayout

过渡动画

TransitionManager.beginDelayedTransition(ViewGroup)

通过修改view的属性来达到过渡效果;

例子:

```
TransitionManager.beginDelayedTransition((ViewGroup) view.getParent());
LinearLayout.LayoutParams layoutParams =
    (LinearLayout.LayoutParams) view.getLayoutParams();
layoutParams.height *= 2;
layoutParams.width *= 2;
view.setLayoutParams(layoutParams);
```

TransitionManager.go(sceneEnd, new ChangeBounds());

传入不同的布局，达到不同布局的切换，**sceneEnd**（需要切换过去的布局形态）

ChangeBounds（不同的动画效果，**ChangeBounds**表示位移变化，一共有**Fade Slide Explode**四种不同效果）

例子:

```
ViewGroup vg = findViewById(R.id.root);

Scene sceneStart = Scene.getSceneForLayout(vg, R.layout.go_start, MainActivity.this);

Scene sceneEnd = Scene.getSceneForLayout(vg, R.layout.go_end, MainActivity.this);

if (type==1) {
    TransitionManager.go(sceneEnd, new ChangeBounds());
    type=2;
}else {
    TransitionManager.go(sceneStart, new ChangeBounds());
    type=1;
}
```

注意：两个布局里面的ID需要一一对应，**TransitionManager.go()** 这中布局切换后需要重新对View绑定数据，因为是不同的布局。

MotionLayout是**ConstraintLayout**子类，布局根布局需要使用**MotionLayout**

```
<android.support.constraint.motion.MotionLayout
    app:layoutDescription="@xml/motion"
```

motion.xml

```
<MotionScene xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto">
```

```

<Transition app:constraintSetStart="@id/start"
            app:constraintSetEnd="@id/end" >
    <OnClick app:target="@id/v1"
    />
</Transition>

<ConstraintSet android:id="@+id/start">
</ConstraintSet>
<ConstraintSet android:id="@+id/end">
    <Constraint
        android:id="@+id/v1"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:background="#00cc00"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintTop_toTopOf="parent"
    />

    <Constraint
        android:id="@+id/v2"
        android:layout_width="40dp"
        android:layout_height="40dp"
        android:background="#0000cc"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintLeft_toRightOf="@+id/v1"
    />

    <Constraint
        android:id="@+id/v3"
        android:layout_width="40dp"
        android:layout_height="40dp"
        android:background="#cc0000"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        android:layout_marginBottom="20dp"
        android:layout_marginRight="20dp"
    />

    <Constraint
        android:id="@+id/v4"
        android:layout_width="0dp"
        android:layout_height="120dp"
        android:background="#cccc00"
        app:layout_constraintTop_toBottomOf="@id/v1"
        app:layout_constraintLeft_toLeftOf="parent"
    />

</ConstraintSet>
</MotionScene>

```