

## android中设置activity切换动画有 两种实现方式

1. 在 AndroidManifest.xml 文件activity标签中，通过设置 android:theme 主题属性来自定义我们 Activity的切换动画( 主题可以定义很多属性，动画只是其中之一)。

```
<activity
    android:name="whateverNameActivity"
    android:theme="@style/myActivityTheme" >
</activity>
```

首先要定义自己的主题，打开res/values/styles.xml文件，加入

```
<style name="myActivityTheme">
    <itemname="android:windowAnimationStyle">@style/myAnimTheme />
</style>
```

然后继续定义具体切换动画样式，分为4种需要动画的情况。

打开新界面时：

- 新界面出现 (android:activityOpenEnterAnimation)
- 当前界面消失 (android:activityOpenExitAnimation)

返回上一界面时：

- 当前界面消失 (android:activityCloseExitAnimation)
- 上一界面出现 (android:activityCloseEnterAnimation)

a、b、c、d为自定义在res/anim下的具体动画效果文件（下面贴出）

```
<style name="myAnimTheme " parent="@android:style/Animation.Activity">
    <item name="android:activityOpenEnterAnimation">@anim/a />
    <item name="android:activityOpenExitAnimation">@anim/b />
    <item name="android:activityCloseEnterAnimation">@anim/c />
    <item name="android:activityCloseExitAnimation">@anim/d />
</style>
```

2. 在Android的2.0版本之后，加入了overridePendingTransition（）这个函数来帮我们实现activity切换动画，它在startActivity()或者finish()函数之后调用

```
● void android.app.Activity.overridePendingTransition(int enterAnim, int exitAnim)
```

Call immediately after one of the flavors of [startActivity\(Intent\)](#) or [finish](#) to specify an explicit transition animation to perform next.

As of [android.os.Build.VERSION\\_CODES.JELLY\\_BEAN](#) an alternative to using this with starting activities is to supply the desired animation information through a [ActivityOptions](#) bundle to [or a related function](#). This allows you to specify a custom animation even when starting an activity from outside the context of the current top activity.

**Parameters:**

- enterAnim** A resource ID of the animation resource to use for the incoming activity. Use 0 for no animation.
- exitAnim** A resource ID of the animation resource to use for the outgoing activity. Use 0 for no animation.

它有两个参数， enterAnim是下一界面进入效果的xml文件的id, exitAnim是当前界面退出效果的xml文件id。

我们可以看出它也实现了第一种方式的四种动画情况。

注意：

- 当我们不想要动画时，设置为 0 即可。
- 我们可以看出这个方法是定义在android.app.Activity下的，如果我们用自定义的view或fragment等嵌入到Activity中，调用这个函数时很可能不起作用。一般改写为this.getParent().overridePendingTransition 就可以解决。

### 3.上 res/anim 下的各种动画文件

zoomin.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android"
    android:interpolator="@android:anim/decelerate_interpolator">

    <scale android:fromXScale="0.1"
        android:toXScale="1.0"
        android:fromYScale="0.1"
        android:toYScale="1.0"
        android:pivotX="50%p"
        android:pivotY="50%p"
        android:duration="300" />

    <alpha
        android:fromAlpha="0.1"
        android:toAlpha="1.0"
        android:duration="300" />
</set>
```

zoomout.xml

```
<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android"
    android:interpolator="@android:anim/decelerate_interpolator"
    android:zAdjustment="top">

    <scale android:fromXScale="1.0"
        android:toXScale=".5"
        android:fromYScale="1.0"
        android:toYScale=".5"
        android:pivotX="50%p"
        android:pivotY="50%p"
        android:duration="300" />

    <alpha android:fromAlpha="1.0"
        android:toAlpha="0"
        android:duration="300"/>
</set>
```

out\_from\_right.xml

```
<?xml version="1.0" encoding="utf-8"?>

<translate xmlns:android="http://schemas.android.com/apk/res/android"
    android:duration="500"
    android:fromXDelta="0"
    android:fromYDelta="0"
    android:toXDelta="100%p"
    android:toYDelta="0" >

</translate>
```

in\_from\_left.xml

```
<?xml version="1.0" encoding="utf-8"?>

<translate xmlns:android="http://schemas.android.com/apk/res/android"
    android:duration="500"
    android:fromXDelta="-100%p"
    android:fromYDelta="0"
    android:toXDelta="0"
    android:toYDelta="0" >

</translate>
```

out\_from\_left.xml

```
<?xml version="1.0" encoding="utf-8"?>

<translate xmlns:android="http://schemas.android.com/apk/res/android"
    android:duration="500"
    android:fromXDelta="0"
    android:fromYDelta="0"
    android:toXDelta="-100%p"
    android:toYDelta="0" >

</translate>
```

in\_from\_right.xml

```
<?xml version="1.0" encoding="utf-8"?>
<translate xmlns:android="http://schemas.android.com/apk/res/android"
    android:duration="500"
    android:fromXDelta="100%p"
    android:fromYDelta="0"
    android:toXDelta="0"
    android:toYDelta="0" >

</translate>
```

fade.xml

```
<?xml version="1.0" encoding="utf-8"?>

<alpha xmlns:android="http://schemas.android.com/apk/res/android"
    android:interpolator="@android:anim/accelerate_interpolator"
    android:fromAlpha="0.0" android:toAlpha="1.0"
    android:duration="2000" />
```

hold.xml

```
<?xml version="1.0" encoding="utf-8"?>

<translate xmlns:android="http://schemas.android.com/apk/res/android"
    android:interpolator="@android:anim/accelerate_interpolator"
    android:fromXDelta="0" android:toXDelta="0"
    android:duration="2000" />
```

hyperspace\_in.xml

```
<?xml version="1.0" encoding="utf-8"?>

<alpha xmlns:android="http://schemas.android.com/apk/res/android"
    android:fromAlpha="0.0"
    android:toAlpha="1.0"
    android:duration="2000"
    android:startOffset="1200" />
```

hyperspace\_out.xml

```

<?xml version="1.0" encoding="utf-8"?>

<set xmlns:android="http://schemas.android.com/apk/res/android"
    android:shareInterpolator="false">
    <scale android:interpolator="@android:anim/accelerate_decelerate_interpolator"
        android:fromXScale="1.0"
        android:fromYScale="1.0"
        android:toYScale="0.6"
        android:pivotX="50%"
        android:pivotY="50%"
        android:duration="2000" />

    <set android:interpolator="@android:anim/accelerate_interpolator"
        android:startOffset="700">
        <scale android:fromXScale="1.4"
            android:toXScale="0.0"
            android:toYScale="0.0"
            android:pivotX="50%"
            android:pivotY="50%"
            android:duration="2000" />
        <rotate android:fromDegrees="0"
            android:toDegrees="-45"
            android:pivotX="50%"
            android:pivotY="50%"
            android:duration="2000" />
    </set>
</set>

```

#### alpha\_action.xml

```

<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android" >
<alpha android:fromAlpha="1.0"
    android:toAlpha="0"
    android:duration="2000"/>
<!-- 透明度控制动画效果 alpha
    0.0表示完全透明
    1.0表示完全不透明
    以上值取0.0-1.0之间的float数据类型的数字

-->
</set>

```

#### scale\_action.xml

```

<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android">
    <scale android:interpolator="@android:anim/accelerate_decelerate_interpolator"
        android:fromXScale="0.0"
        android:toXScale="1.4"
        android:fromYScale="0.0"
        android:toYScale="1.4"
        android:pivotX="50%"
        android:pivotY="50%"
        android:fillAfter="false"
        android:duration="2000" />
</set>

```

#### scale\_rotate.xml

```

<?xml version="1.0" encoding="utf-8"?>
<!-- android:duration="@android:integer/config_mediumAnimTime" -->
<set xmlns:android="http://schemas.android.com/apk/res/android"
    android:shareInterpolator="false">
    <scale android:interpolator="@android:res/anim/accelerate_decelerate_interpolator"
        android:fromXScale="0.0"
        android:toXScale="1.0"
        android:fromYScale="0.0"
        android:toYScale="1.0"
        android:pivotX="50%"
        android:pivotY="50%"
        android:duration="2000"
        android:repeatCount="0"
        android:startOffset="20"></scale>

    <rotate android:interpolator="@android:anim/accelerate_decelerate_interpolator"
        android:fromDegrees="0"
        android:toDegrees="+355"
        android:pivotX="50%"
        android:pivotY="50%"
        android:duration="2000" />
</set>

```

#### scale\_translate.xml

```

<?xml version="1.0" encoding="utf-8"?>
<!-- android:duration="@android:integer/config_mediumAnimTime" -->
<set xmlns:android="http://schemas.android.com/apk/res/android"
    android:shareInterpolator="false">
    <scale android:interpolator="@android:res/anim/accelerate_decelerate_interpolator"
        android:fromXScale="0.0"
        android:toXScale="1.0"
        android:fromYScale="0.0"
        android:toYScale="1.0"
        android:pivotX="0"
        android:pivotY="0"
        android:duration="2000"
        android:repeatCount="0"
        android:startOffset="0"></scale>

    <translate android:fromXDelta="0"
        android:toXDelta="0"
        android:fromYDelta="0"
        android:toYDelta="0"
        android:duration="2000" />
</set>

```

#### scale\_translate\_rotate.xml

```

<?xml version="1.0" encoding="utf-8"?>
<!-- android:duration="@android:integer/config_mediumAnimTime" -->
<set xmlns:android="http://schemas.android.com/apk/res/android"
    android:shareInterpolator="false">
    <scale android:interpolator="@android:res/anim/accelerate_decelerate_interpolator"
        android:fromXScale="0.0"
        android:toXScale="1.0"
        android:fromYScale="0.0"
        android:toYScale="1.0"
        android:pivotX="50%"
        android:pivotY="50%"
        android:duration="2000"></scale>

    <translate android:interpolator="@android:anim/accelerate_decelerate_interpolator"
        android:fromXDelta="120"
        android:toXDelta="30"
        android:fromYDelta="30"
        android:toYDelta="250"
        android:duration="2000" />

    <rotate android:interpolator="@android:anim/accelerate_decelerate_interpolator"
        android:fromDegrees="0"
        android:toDegrees="+355"
        android:pivotX="50%"
        android:pivotY="50%"
        android:duration="2000" />
</set>

```

#### slide\_down\_out.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<set android:interpolator="@android:anim/accelerate_interpolator"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <translate android:duration="2000"
        android:fromYDelta="0.0"
        android:toYDelta="100.0%p" />
</set>
```

wave\_scale.xml

```
<?xml version="1.0" encoding="utf-8"?>

<set xmlns:android="http://schemas.android.com/apk/res/android"
    android:interpolator="@android:anim/accelerate_interpolator">
    <alpha android:fromAlpha="0.0"
        android:toAlpha="1.0"
        android:duration="2000" />

    <scale android:fromXScale="0.5"
        android:toXScale="1.5"
        android:fromYScale="0.5"
        android:toYScale="1.5"
        android:pivotX="50%"
        android:pivotY="50%"
        android:duration="2000" />

    <scale android:fromXScale="1.5"
        android:toXScale="1.0"
        android:fromYScale="1.5"
        android:toYScale="1.0"
        android:pivotX="50%"
        android:pivotY="50%"
        android:startOffset="200"
        android:duration="2000" />
</set>
```