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)

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:

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=".0"
android:fromYScale=".5"
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:dration="500"
    android:fromXDelta="100%p"
    android:fromYDelta="0"
    android:toXDelta="0"
    android:toYDelta="0" >
</translate>
```

fade.xml

hold.xml

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

alpha_action.xml

scale action.xml

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"</pre>
    android:shareInterpolator="false">
    <scale android:interpolator="@android:res/anim/accelerate decelerate interpolator"</pre>
       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"</pre>
       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"</pre>
   android:shareInterpolator="false">
    <scale android:interpolator="@android:res/anim/accelerate decelerate interpolator"</pre>
       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"</pre>
        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"</pre>
    android:shareInterpolator="false">
    <scale android:interpolator="@android:res/anim/accelerate decelerate interpolator"</pre>
        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"</pre>
        android:fromXDelta="120"
        android:toXDelta="30"
        android: from YDelta="30"
        android:toYDelta="250"
        android:duration="2000" />
    <rotate android:interpolator="@android:anim/accelerate decelerate interpolator"</pre>
        android:fromDegrees="0"
        android:toDegrees="+355"
        android:pivotX="50%"
        android:pivotY="50%"
        android:duration="2000" />
</set>
```

```
<?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"</pre>
        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"</pre>
         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>
```