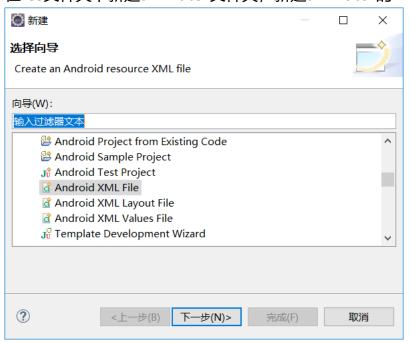
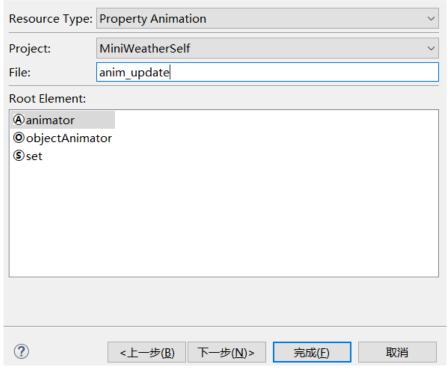
(IDE为Eclipse, Android studio步骤等同)

第一步: 创建动画文件

在res文件夹下新建animator文件夹,新建animator的xml文件



点击下一步, 界面里填写下图内容



文件建好之后填写如下内容:

(注意: android:drawable="@drawable/title_update"引用自己要旋转的资源文件)

```
<?xml version="1.0" encoding="utf-8"?>
<animated-rotate xmlns:android="http://schemas.android.com/apk/res/android"
    android:drawable="@drawable/title_update"
    android:fromDegrees="0.0"
    android:pivotX="50.0%"
    android:pivotY="50.0%"
    android:toDegrees="360.0" />
```

第二步:修改主布局文件

在原先的更新ImageView控件处使用Framelayout布局,把原先的更新ImageView和ProgressBar控件添加进去,如下:

修改前:

```
<TextView
    android:id="@+id/title city name"
    android:layout width="fill parent"
    android:layout height="fill parent"
    android:layout toRightOf="@id/city seperator"
    android:gravity="center vertical"
    android:paddingLeft="5dip"
    android:text="北京天气"
    android:textColor="#fffffff"
    android:textSize="22.0sp" />
<ImageView</pre>
    android:id="@+id/title update btn"
    android:layout_width="45.0dip"
    android:layout height="45.0dip"
    android:layout_alignParentRight="true"
    android:layout gravity="center"
    android:src="@drawable/title update"
    android:visibility="visible" />
<ImageView</pre>
    android:id="@+id/title share"
    android:layout width="45.0dip"
    android:layout height="45.0dip"
    android:layout toLeftOf="@id/title update btn"
    android:src="@drawable/title share" />
```

修改后:

```
<TextView
        android:id="@+id/title city name"
        android:layout_width="fill_parent"
        android:layout height="fill parent"
        android:layout toRightOf="@id/city seperator"
        android:gravity="center_vertical"
        android:paddingLeft="5dip"
        android:text="北京天气"
        android:textColor="#fffffff"
        android:textSize="22.0sp" />
    <FrameLavout</pre>
        android:id="@+id/updateFrame"
        android:layout width="45.0dip"
        android:layout_height="45.0dip"
        android:layout alignParentRight="true"
        android:layout gravity="center">
        <ImageView
           android:id="@+id/title update btn"
           android:layout_width="fill_parent"
           android:layout height="fill parent"
           android:src="@drawable/title_update"
           android:visibility="visible" />
        <ProgressBar</pre>
           android:id="@+id/loading"
           android:layout width="fill parent"
           android:layout height="fill parent"
           android:visibility="invisible"
           android:indeterminateBehavior="repeat"
           android:indeterminateDrawable="@animator/anim update" />
    </FrameLayout>
    <ImageView</pre>
        android:id="@+id/title share"
        android:layout width="45.0dip"
        android:layout height="45.0dip"
        android:layout toLeftOf="@id/updateFrame"
注意:分享ImageView控件的Android: layout toLeftOf的属性改为新加的FrameLayout
布局的id,更新按钮的ImageView的可见性设置为可见,progressBar设置为不可见(如上
的Android: visibility属性的设置)
第三步: 主activity内进行更新按钮的操作
1添加ProgressBar并初始化,如下:
private ProgressBar progressBar;
progressBar=(ProgressBar) findViewById(R.id.Loading);
```

2 在更新按钮的事件处理下设置ImageView的可见性为隐藏,ProgressBar的可见属性为可见,添加如下选中区域的代码:

```
public void onClick(View view) {
    // TODO Auto-generated method stub
    switch(view.getId()){
    case R.id.title_update_btn:
        SharedPreferences sharedPrefences=getSharedPreferences("config",MODE_PRIVATE);
        String cityCode=sharedPrefences.getString("main_city_code", "101010100");
        Log.d("myWeather",cityCode);

        if (NetUtil.getNetworkState(this) != NetUtil.NETWORK_NONE) {
            Log.d("myWeather", "网络OK");
            queryWeatherCode(cityCode);
        }else
        {
            Log.d("myWeather", "网络挂了");
            Toast.makeText(MainActivity.this,"网络挂了! ", Toast.LENGTH_LONG).show();
        }
        mUpdateBtn.setVisibility(View.GONE);
        progressBar.setVisibility(View.VISIBLE);
```

3 在更新天气的信息方法下设置ImageView的可见性为可见,ProgressBar的可见属性为隐藏,添加如下选中区域的代码:

```
void updateTodayWeather(TodayWeather todayWeather){
```

```
if(mUpdateBtn.getVisibility()==View.GONE&&progressBar.getVisibility()==View.VISIBLE) {
    progressBar.setVisibility(View.GONE);
    mUpdateBtn.setVisibility(View.VISIBLE);
}
```

```
city_name_Tv.setText(todayWeather.getCity()+"天气");
cityTv.setText(todayWeather.getCity());
timeTv.setText(todayWeather.getUpdatetime()+ "发布");
humidityTv.setText("湿度: "+todayWeather.getShidu());
currentTemTV.setText("温度: "+todayWeather.getWendu()+"°C");
pmDataTv.setText(todayWeather.getPm25());
//pmQualityTv.setText(todayWeather.getQuality());
weekTv.setText(todayWeather.getDate());
temperatureTv.setText(todayWeather.getHigh()+"~"+todayWeather.getLow());
climateTv.setText(todayWeather.getType());
windTv.setText("风力:"+todayWeather.getFengli());
pmQualityTv.setText(todayWeather.getFengli());
```