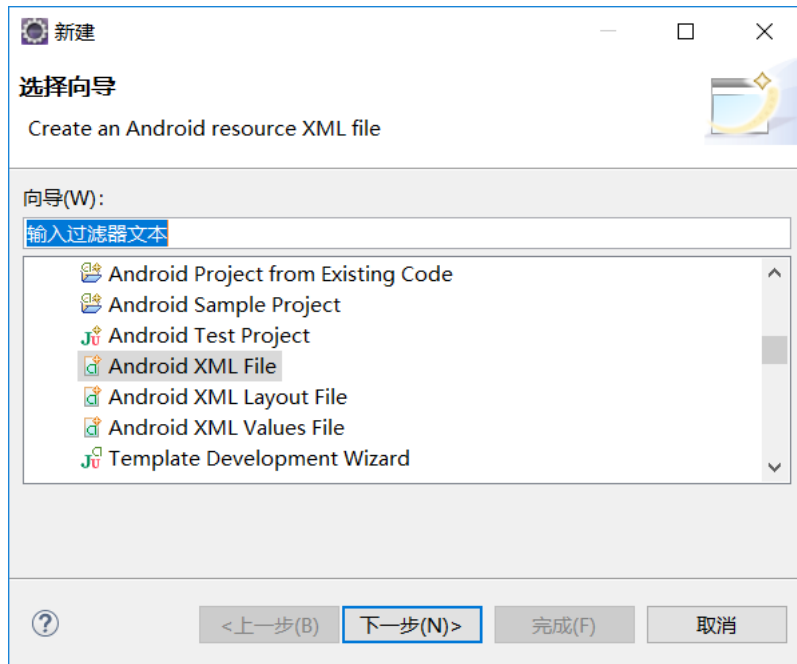


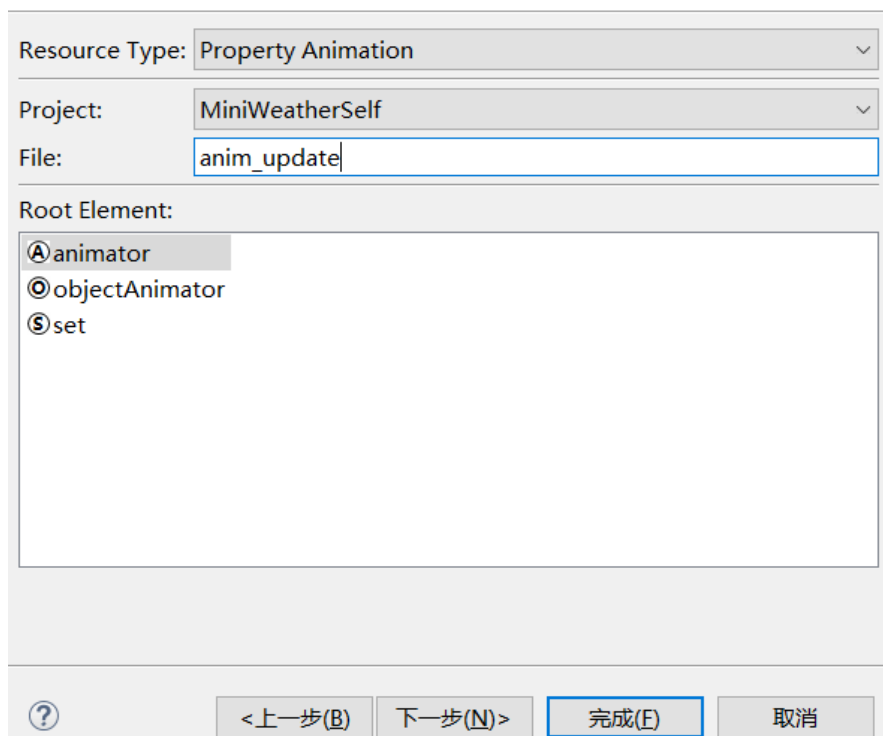
(IDE为Eclipse, Android studio步骤等同)

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="#ffffff"
    android:textSize="22.0sp" />

<ImageView
    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
    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="#ffffff"
    android:textSize="22.0sp" />
<FrameLayout
    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
        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
    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 sharedPreferences=getSharedPreferences("config",MODE_PRIVATE);
            String cityCode=sharedPreferences.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());
nmQualityTv.setText(todayWeather.getQuality());

```