Step 10: 美化UI

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## 目标

美化UI，刷新时显示提示信息。

## 步骤

### 1、修改UI

修改layout/content\_main.xml加入3个TextView，分别用于显示“刷新提示”，“当前温度”，“今天天气”，代码如下：

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| *<?***xml version="1.0" encoding="utf-8"***?>* <**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  xmlns:app="http://schemas.android.com/apk/res-auto"  xmlns:tools="http://schemas.android.com/tools"  android:orientation="vertical"  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  app:layout\_behavior="@string/appbar\_scrolling\_view\_behavior"  tools:context="cn.edu.uoh.cs.weatherforecast.MainActivity"  tools:showIn="@layout/activity\_main"**>   <**TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="正在获取..."  android:id="@+id/txtRefresh"  android:layout\_gravity="center\_horizontal"  android:textSize="40sp"  android:textIsSelectable="true"  android:visibility="gone"** />   <**TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:id="@+id/txtTemperature"  android:layout\_gravity="center\_horizontal"  android:textSize="50sp"** />   <**TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:id="@+id/txtWeather"  android:layout\_gravity="center\_horizontal"  android:textSize="10dp"** />   <**ListView  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:id="@+id/listView"  android:padding="8dp"** /> </**LinearLayout**> |

### 2、修改MainActivity，显示“刷新提示”，“当前温度”，“今天天气”

1）修改方法refreshWeatherInfo，开始刷新时显示“刷新提示”

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| **private void** refreshWeatherInfo() {  *// 城市名称* String cityName = **cityList**.getCurrentCityName();  Log.*i*(***tag***, **"refresh weather: "** + cityName);  *// 修改工具栏标题* **if** (cityName == **null**) {  Toolbar toolbar = (Toolbar) findViewById(R.id.***toolbar***);  toolbar.setTitle(**"请添加城市"**);  **return**;  }  ***// 显示正式刷新的提示* View txtRefresh = findViewById(R.id.*txtRefresh*);  txtRefresh.setVisibility(View.*VISIBLE*);**  *// 调用异步任务类，访问网络，获取数据* NetTask task = **new** NetTask(**this**);  task.execute(cityName); } |

2）修改方法showForecastList，获取数据成功后，隐藏刷新提示，显示温度，和天气

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| --- |
| **void** showForecastList(String json) {  ***// 隐藏正式刷新的提示* View txtRefresh = findViewById(R.id.*txtRefresh*);  txtRefresh.setVisibility(View.*GONE*);**   *// 把json字符串转换为WeatherInfo对象* Gson gson = **new** Gson();  WeatherInfo weatherInfo = gson.fromJson(json, WeatherInfo.**class**);   *// 判断是否正确的获取的数据，如果不是，显示错误信息，并返回* **if** (!weatherInfo.getDesc().equals(**"OK"**)) {  showError(**"获取天气信息出错。"**);  **return**;  }  *// 修改工具栏标题* Toolbar toolbar = (Toolbar) findViewById(R.id.***toolbar***);  String cityName = **cityList**.getCurrentCityName();  **if** (cityName != **null**) {  toolbar.setTitle(cityName);  } **else** {  toolbar.setTitle(**"请添加城市"**);  **return**;  }  ***// 显示当前温度，和今天天气* TextView txtTemperature = (TextView) findViewById(R.id.*txtTemperature*);  txtTemperature.setText(weatherInfo.getData().getWendu() + "℃");  TextView txtWeather = (TextView) findViewById(R.id.*txtWeather*);  txtWeather.setText(weatherInfo.getData().getForecast().get(0).getType());**   *// 把WeatherInfo对象转换为List<Map<String, Object>>对象* List<Map<String, Object>> dataList = WeatherInfo2SimpleAdapterData.*convert*(weatherInfo);   *// 创建SimpleAdapter对象* SimpleAdapter adapter = **new** SimpleAdapter(**this**, dataList,  R.layout.***list\_item***,  **new** String[]{**"date"**, **"temperature"**, **"weather"**, **"wind"**},  **new int**[]{R.id.***txtDate***, R.id.***txtTemperature***, R.id.***txtWeather***, R.id.***txtWind***}  );   *// 获取ListView并设置它的Adapter* ListView listView = (ListView) findViewById(R.id.***listView***);  listView.setAdapter(adapter); } |