

利用 SharedPreferences 实现初始界面显示上次更新数据

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1. 实现目标

在用户下一次打开应用的时候出现的数据是上一次关闭应用时的数据，如下图所示。



2. 实现过程

(1) 实现逻辑

首先，我们想到可以把每一次更新的数据保存在 SharedPreferences 当中，然后，更新的数据包括有 TextView 中的数据，和 ImageView 的数据。

其次，我们考虑更新操作包括有：点击更新按钮的更新、点击定位的更新和选择城市的更新三部分，因此，可以把保存数据的部分写成一个方法，便于调用。

之后，我们思考保存文字和图片的方法，文字内容只要普通的操作就行，保存图片，我们可以考虑保存图片的 id。

最后，在初始化数据的时候，将 SharedPreferences 中的数据取出赋值给变量。

(2) 具体步骤

a) 写一个保存数据的方法

编写一个保存数据的方法 `SharePerence (TodayWeather todayWeather)`, 便于在数据更新的时候调用, 代码如下, 传入的值是一个 `TodayWeather` 类型的值, `TodayWeather` 就是之前获取数据返回数据的类, 在 `SharePerence()` 方法中有一个循环, 是用来获取保存 `ViewPager` 中的未来四天的数据的, 在这个方法中我们看到, 只是保存了 `TextView` 控件中的数据, 还没有保存 `ImageView` 的数据。

```
private void SharePreference(TodayWeather todayWeather1) {
    SharedPreferences weatherdatas=(SharedPreferences)getSharedPreferences( name: "shared",MODE_PRIVATE);
    SharedPreferences.Editor editor=weatherdatas.edit();

    editor.putString("city",todayWeather1.getCity());
    editor.putString("updatetime",todayWeather1.getUpdatetime());
    editor.putString("wendu",todayWeather1.getWendu());
    editor.putString("shidu",todayWeather1.getShidu());
    editor.putString("pm25",todayWeather1.getPm25());
    editor.putString("quality",todayWeather1.getQuality());
    editor.putString("fengxiang",todayWeather1.getFengxiang());
    editor.putString("fengli",todayWeather1.getFengli());
    editor.putString("date",todayWeather1.getDate());
    editor.putString("high",todayWeather1.getHigh());
    editor.putString("low",todayWeather1.getLow());
    editor.putString("type",todayWeather1.getType());

    String[] futurefengxiang=todayWeather1.getFuturefengxiang();
    String[] futuredate=todayWeather1.getFuturedate();
    String[] futurehigh=todayWeather1.getFuturehigh();
    String[] futurelow=todayWeather1.getFuturelow();
    String[] futuretype=todayWeather1.getFuturetype();
    for (int a=0;a<4;a++) {
        editor.putString("futurefengxiang"+a, futurefengxiang[a]);
        editor.putString("futuredate"+a, futuredate[a]);
        editor.putString("futurehigh"+a, futurehigh[a]);
        editor.putString("futurelow"+a, futurelow[a]);
        editor.putString("futuretype"+a, futuretype[a]);
    }

    editor.commit();
}
```

b) 保存图片

保存图片的操作中, 我们选择保存图片的 `id`, 而不保存图片本身, 当然

也可以将图片转化为二进制流保存，可以查阅资料，这里不再赘述。

至于如何获取到图片的 id，可以采用给图片设置 Tag 的方法来获取 id，即将一个 ImageView 的 Tag 值设置为所显示的图片的 id (R.drawable.图片名)，在之后可以获取 ImageView 的 Tag 值，由于这个 Tag 值是一个 Object 类型的，在保存的时候需要转换为 int 类型进行保存，代码如下。

```
String climate=todayWeather.getType();
if(climate.equals("暴雪")) {
    weatherImg.setImageResource(R.drawable.biz_plugin_weather_baoxue);
    weatherImg.setTag(R.drawable.biz_plugin_weather_baoxue);
}
if(climate.equals("暴雨")) {
    weatherImg.setImageResource(R.drawable.biz_plugin_weather_baoyu);
    weatherImg.setTag(R.drawable.biz_plugin_weather_baoyu);
}
if(climate.equals("大暴雨")) {
    weatherImg.setImageResource(R.drawable.biz_plugin_weather_dabaoyu);
    weatherImg.setTag(R.drawable.biz_plugin_weather_dabaoyu);
}
if(climate.equals("大雪")) {
    weatherImg.setImageResource(R.drawable.biz_plugin_weather_daxue);
    weatherImg.setTag(R.drawable.biz_plugin_weather_daxue);
}
if(climate.equals("多云")) {
    weatherImg.setImageResource(R.drawable.biz_plugin_weather_duoyun);
    weatherImg.setTag(R.drawable.biz_plugin_weather_duoyun);
}
```

类似于上述代码，对 ImageView 进行 setTag，其值为图片 id。

```
if (pmImg.getTag() == null) {
    editor.putInt("pmImg", R.drawable.biz_plugin_weather_0_50);
} else {
    editor.putInt("pmImg", (int) pmImg.getTag());
}
if (weatherImg.getTag() == null) {
    editor.putInt("wetherImg", R.drawable.biz_plugin_weather_daxue);
} else {
    editor.putInt("wetherImg", (int) weatherImg.getTag());
}

editor.commit();
```

上述代码是用来判断获取道德 Tag 值是否为空，若不为空就保存下来，且上述代码是保存了天气类型的图片和 PM2.5 的图片，保存 ViewPager 中的天气图片也需要用到循环，代码如下。

```

for(int b=0;b<4;b++){
    otherwind[b].setText(fwind[b]);
    otherday[b].setText(fdate[b]);
    otherweather[b].setText(ftype[b]);
    otherclimate[b].setText(fhigh[b]+"~"+flow[b]);

    if (ftype[b].equals(null)) {
        Log.d( tag: "FTYPE###", msg: "nullnullnull");
    }
    if(ftype[b].equals("暴雪")) {
        otherweaimg[b].setImageResource(R.drawable.biz_plugin_weather_baoxue);
        otherweaimg[b].setTag(R.drawable.biz_plugin_weather_baoxue);
    }
    if(ftype[b].equals("暴雨")) {
        otherweaimg[b].setImageResource(R.drawable.biz_plugin_weather_baoyu);
        otherweaimg[b].setTag(R.drawable.biz_plugin_weather_baoyu);
    }
    if(ftype[b].equals("大暴雨")) {
        otherweaimg[b].setImageResource(R.drawable.biz_plugin_weather_dabaoyu);
        otherweaimg[b].setTag(R.drawable.biz_plugin_weather_dabaoyu);
    }
    if(ftype[b].equals("大雪")) {
        otherweaimg[b].setImageResource(R.drawable.biz_plugin_weather_daxue);
        otherweaimg[b].setTag(R.drawable.biz_plugin_weather_daxue);
    }

}

if(ftype[b].equals("特大暴雨")){
    otherweaimg[b].setImageResource(R.drawable.biz_plugin_weather_tedabaoyu);
    otherweaimg[b].setTag(R.drawable.biz_plugin_weather_tedabaoyu);
}

if(ftype[b].equals("雾")) {
    otherweaimg[b].setImageResource(R.drawable.biz_plugin_weather_wu);
    otherweaimg[b].setTag(R.drawable.biz_plugin_weather_wu);
}

editor.putInt("otherweaimg"+b, (int) otherweaimg[b].getTag());
}

```

以上保存图片 id 的代码均写在更新数据的方法当中，即如下图。

```

void updateTodayWeather(TodayWeather todayWeather) { //获取更新的天气数据，并且赋值给各种文字控件
    city_name_tv.setText(todayWeather.getCity() + "天气");
    cityTv.setText(todayWeather.getCity());
    timeTv.setText(todayWeather.getUpdatetime() + "发布");
    humidityTv.setText("湿度:" + todayWeather.getShidu());
    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());
}

```

c) 在用于“解析 XML”的方法中调用保存数据方法

在“解析 XML”方法 TodayWeather parseXML(String xmldata)中调用保存数

据方法 SharedPreferences(todayWeather)，代码如下。

```

private TodayWeather parseXML(String xmldata) { //解析xml数据
    TodayWeather todayWeather = null;
    int fengxiangCount = 0;
    int fengliCount = 0;
    int dateCount = 0;
    int highCount = 0;
    int lowCount = 0;
    int typeCount = 0;
    String ffxiang[], fhigh[], flow[], ftype[], fdate[];
    ffxiang=new String[4];
    fhigh=new String[4];
    flow=new String[4];
    ftype=new String[4];
    fdate=new String[4];

    try {
        XmlPullParserFactory fac = XmlPullParserFactory.newInstance(); //创建生产XML的pull解析器的工厂
        XmlPullParser xmlPullParser = fac.newPullParser(); //使用工厂获取pull解析器
        xmlPullParser.setInput(new StringReader(xmldata)); //使用解析器读取当前的xml流
        int eventType = xmlPullParser.getEventType(); //获取当前事件的状态
        Log.d("tag: myWeather", "msg: parseXML");
        /**
         * 我们知道pull解析是以事件为单位解析的因此我们要获取一开始的解析标记type，之后通过type判断循环
         * 注意：当解析器开始读取xmldata的时候已经开始了，指针type在xml的第一行开始。pull解析是指针从第
         */
        while (eventType != XmlPullParser.END_DOCUMENT) {
            switch (eventType) {

```

```

        }
        typeCount++;
    }
}

todayWeather.setFuturefengxiang(ffxiang);
todayWeather.setFuturedate(fdate);
todayWeather.setFuturehigh(fhigh);
todayWeather.setFuturelow(flow);
todayWeather.setFuturetype(fstype);
SharedPreferences(todayWeather);

break;
case XmlPullParser.END_TAG:
    break;
}

eventType = xmlPullParser.next();

}

} catch (XmlPullParserException e) {
    e.printStackTrace();
} catch (IOException e) {
    e.printStackTrace();
}

return todayWeather;
}

```

d) 初始化数据时从 SharedPreferences 中读取数据

```

void initView() {
    SharedPreferences weatherinfo=(SharedPreferences) getSharedPreferences("shared", MODE_PRIVATE);

    city_name_Tv = (TextView) findViewById(R.id.title_city_name);
    cityTv = (TextView) findViewById(R.id.city);
    timeTv = (TextView) findViewById(R.id.time);
    humidityTv = (TextView) findViewById(R.id.humidity);
    weekTv = (TextView) findViewById(R.id.week_date);
    pmDataTv = (TextView) findViewById(R.id.pm_date);
    pmQualityTv = (TextView) findViewById(R.id.pm2_5_quality);
    pmImg = (ImageView) findViewById(R.id.pm2_5_img);
    temperatureTv = (TextView) findViewById(R.id.tempreture);
    climateTv = (TextView) findViewById(R.id.climate);
    windTv = (TextView) findViewById(R.id.wind);
    weatherImg = (ImageView) findViewById(R.id.weather_img);
}

```

```

int id=weatherinfo.getInt( key: "wetherImg", R.drawable.biz_plugin_weather_qing);
weatherImg.setImageResource(id);
int idpm=weatherinfo.getInt( key: "pmImg", R.drawable.biz_plugin_weather_0_50);
pmImg.setImageResource(idpm);
city_name_Tv.setText(weatherinfo.getString( key: "city", defValue: "北京")+"天气");
cityTv.setText(weatherinfo.getString( key: "city", defValue: "北京"));
timeTv.setText(weatherinfo.getString( key: "updatetime", defValue: "7: 00"));
humidityTv.setText(weatherinfo.getString( key: "shidu", defValue: "50%"));
pmDataTv.setText(weatherinfo.getString( key: "pm25", defValue: "50"));
weekTv.setText(weatherinfo.getString( key: "date", defValue: "1月1日"));
temperatureTv.setText(weatherinfo.getString( key: "high", defValue: "0℃")+"~"+weatherinfo.getString( key: "low", defValue: "5℃"));
climateTv.setText(weatherinfo.getString( key: "type", defValue: "晴"));
windTv.setText(weatherinfo.getString( key: "fengli", defValue: "3级"));
pmQualityTv.setText(weatherinfo.getString( key: "quality", defValue: "优"));

```

上述代码是赋值了当日天气的信息。

```

otherweather[a]=(TextView)views.get(0).findViewById(weather[a]);
otherday[a]=(TextView)views.get(0).findViewById(dat[a]);
otherclimate[a]=(TextView)views.get(0).findViewById(climate[a]);
otherwind[a]=(TextView)views.get(0).findViewById(wind[a]);
otherweaing[a]=(ImageView)views.get(0).findViewById(weaing[a]);
otherweather[a].setText(weatherinfo.getString( key: "futurehigh"+a, defValue: "0℃")+"~"+weatherinfo.getString( key: "futurelow"+a, defValue: "5℃"));
otherday[a].setText(weatherinfo.getString( key: "futuredate"+a, defValue: "1月1日"));
otherwind[a].setText(weatherinfo.getString( key: "futurefengxiang"+a, defValue: "北风"));
otherclimate[a].setText(weatherinfo.getString( key: "futuretype"+a, defValue: "晴"));
otherweaing[a].setImageResource(weatherinfo.getInt( key: "otherweaing"+a, R.drawable.biz_plugin_weather_qing));

```

上述代码是赋值了 ViewPager 中的信息。

3. 具体代码（均在 MainActivity 中编写）

(1) SharedPreferences(TodayWeather todayWeather1)方法

```

private void SharedPreferences(TodayWeather todayWeather1) {
    SharedPreferences
    weatherdatas=(SharedPreferences)getSharedPreferences("shared", MODE_PRIVATE);
    SharedPreferences.Editor editor=weatherdatas.edit();

    editor.putString("city", todayWeather1.getCity());
    editor.putString("updatetime", todayWeather1.getUpdatetime());
    editor.putString("wendu", todayWeather1.getWendu());
    editor.putString("shidu", todayWeather1.getShidu());
    editor.putString("pm25", todayWeather1.getPm25());
    editor.putString("quality", todayWeather1.getQuality());
    editor.putString("fengxiang", todayWeather1.getFengxiang());
    editor.putString("fengli", todayWeather1.getFengli());
    editor.putString("date", todayWeather1.getDate());
    editor.putString("high", todayWeather1.getHigh());
    editor.putString("low", todayWeather1.getLow());
    editor.putString("type", todayWeather1.getType());

```

```

String[] futurefengxiang=todayWeather1.getFuturefengxiang();
String[] futuredate=todayWeather1.getFuturedate();
String[] futurehigh=todayWeather1.getFuturehigh();
String[] futurelow=todayWeather1.getFuturelow();
String[] futuretype=todayWeather1.getFuturetype();
for (int a=0;a<4;a++){
    editor.putString("futurefengxiang"+a, futurefengxiang[a]);
    editor.putString("futuredate"+a, futuredate[a]);
    editor.putString("futurehigh"+a, futurehigh[a]);
    editor.putString("futurelow"+a, futurelow[a]);
    editor.putString("futuretype"+a, futuretype[a]);
}

editor.commit();
}

```

(2) updateTodayWeather(TodayWeather todayWeather)方法 (添加保存图片 id 操作)

`void updateTodayWeather(TodayWeather todayWeather)` { //获取更新的天气数据, 并且赋值给各种文字控件

```

city_name_Tv.setText(todayWeather.getCity() + "天气");
cityTv.setText(todayWeather.getCity());
timeTv.setText(todayWeather.getUpdatetime() + "发布");
humidityTv.setText("湿度:" + todayWeather.getShidu());
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());

SharedPreferences
weatherdatas=(SharedPreferences)getSharedPreferences("shared",MODE_PRIVATE);
SharedPreferences.Editor editor=weatherdatas.edit();

String fwind[]=todayWeather.getFuturefengxiang();
String fdate[]=todayWeather.getFuturedate();
String fhigh[]=todayWeather.getFuturehigh();
String flow[]=todayWeather.getFuturelow();
String ftype[]=todayWeather.getFuturetype();

for(int b=0;b<4;b++){
    otherwind[b].setText(fwind[b]);
    otherday[b].setText(fdate[b]);
}

```

```

otherweather[b].setText(ftype[b]);
otherclimate[b].setText(fhigh[b]+"-"+flow[b]);

if (ftype[b].equals(null)) {
    Log.d("FTYPE###", "nullnullnull");
}

if(ftype[b].equals("暴雪")) {
    otherweaimg[b].setImageResource(R.drawable.biz_plugin_weather_baoxue);
    otherweaimg[b].setTag(R.drawable.biz_plugin_weather_baoxue);
}

if(ftype[b].equals("暴雨")) {
    otherweaimg[b].setImageResource(R.drawable.biz_plugin_weather_baoyu);
    otherweaimg[b].setTag(R.drawable.biz_plugin_weather_baoyu);
}

if(ftype[b].equals("大暴雨")) {
    otherweaimg[b].setImageResource(R.drawable.biz_plugin_weather_dabaoyu);
    otherweaimg[b].setTag(R.drawable.biz_plugin_weather_dabaoyu);
}

if(ftype[b].equals("大雪")) {
    otherweaimg[b].setImageResource(R.drawable.biz_plugin_weather_daxue);
    otherweaimg[b].setTag(R.drawable.biz_plugin_weather_daxue);
}

if(ftype[b].equals("多云")) {
    otherweaimg[b].setImageResource(R.drawable.biz_plugin_weather_duoyun);
    otherweaimg[b].setTag(R.drawable.biz_plugin_weather_duoyun);
}

if(ftype[b].equals("雷阵雨")) {
    otherweaimg[b].setImageResource(R.drawable.biz_plugin_weather_leizhenyu);
    otherweaimg[b].setTag(R.drawable.biz_plugin_weather_leizhenyu);
}

if(ftype[b].equals("雷阵雨冰雹")) {
    otherweaimg[b].setImageResource(R.drawable.biz_plugin_weather_leizhenyubingbao);
    otherweaimg[b].setTag(R.drawable.biz_plugin_weather_leizhenyubingbao);
}

if(ftype[b].equals("晴")) {
    otherweaimg[b].setImageResource(R.drawable.biz_plugin_weather_qing);
    otherweaimg[b].setTag(R.drawable.biz_plugin_weather_qing);
}

if(ftype[b].equals("沙尘暴")) {
    otherweaimg[b].setImageResource(R.drawable.biz_plugin_weather_shachenbao);
    otherweaimg[b].setTag(R.drawable.biz_plugin_weather_shachenbao);
}

```

```

    }
    if (ftype[b].equals("特大暴雨")) {

otherweaing[b].setImageResource(R.drawable.biz_plugin_weather_tedabaoyu);
        otherweaing[b].setTag(R.drawable.biz_plugin_weather_tedabaoyu);
    }
    if (ftype[b].equals("雾")) {
        otherweaing[b].setImageResource(R.drawable.biz_plugin_weather_wu);
        otherweaing[b].setTag(R.drawable.biz_plugin_weather_wu);
    }

    editor.putInt("otherweaing"+b, (int)otherweaing[b].getTag());

}

if (todayWeather.getPm25() != null) {
    int pm2_5 = Integer.parseInt(todayWeather.getPm25());
    if (pm2_5 <= 50) {
        pmImg.setImageResource(R.drawable.biz_plugin_weather_0_50);
        pmImg.setTag(R.drawable.biz_plugin_weather_0_50);
    }
    if (pm2_5 > 50 && pm2_5 <= 100) {
        pmImg.setImageResource(R.drawable.biz_plugin_weather_51_100);
        pmImg.setTag(R.drawable.biz_plugin_weather_51_100);
    }
    if (pm2_5 > 100 && pm2_5 <= 150) {
        pmImg.setImageResource(R.drawable.biz_plugin_weather_101_150);
        pmImg.setTag(R.drawable.biz_plugin_weather_101_150);
    }
    if (pm2_5 > 150 && pm2_5 <= 200) {
        pmImg.setImageResource(R.drawable.biz_plugin_weather_151_200);
        pmImg.setTag(R.drawable.biz_plugin_weather_151_200);
    }
    if (pm2_5 > 200 && pm2_5 <= 300) {
        pmImg.setImageResource(R.drawable.biz_plugin_weather_201_300);
        pmImg.setTag(R.drawable.biz_plugin_weather_201_300);
    }
    if (pm2_5 > 300) {
        pmImg.setImageResource(R.drawable.biz_plugin_weather_greater_300);
        pmImg.setTag(R.drawable.biz_plugin_weather_greater_300);
    }
}

```

```
String climate=todayWeather.getType();
if(climate.equals("暴雪")) {
    weatherImg.setImageResource(R.drawable.biz_plugin_weather_baoxue);
    weatherImg.setTag(R.drawable.biz_plugin_weather_baoxue);
}
if(climate.equals("暴雨")) {
    weatherImg.setImageResource(R.drawable.biz_plugin_weather_baoyu);
    weatherImg.setTag(R.drawable.biz_plugin_weather_baoyu);
}
if(climate.equals("大暴雨")) {
    weatherImg.setImageResource(R.drawable.biz_plugin_weather_dabaoyu);
    weatherImg.setTag(R.drawable.biz_plugin_weather_dabaoyu);
}
if(climate.equals("大雪")) {
    weatherImg.setImageResource(R.drawable.biz_plugin_weather_daxue);
    weatherImg.setTag(R.drawable.biz_plugin_weather_daxue);
}
if(climate.equals("多云")) {
    weatherImg.setImageResource(R.drawable.biz_plugin_weather_duoyun);
    weatherImg.setTag(R.drawable.biz_plugin_weather_duoyun);
}
if(climate.equals("雷阵雨")) {
    weatherImg.setImageResource(R.drawable.biz_plugin_weather_leizhenyu);
    weatherImg.setTag(R.drawable.biz_plugin_weather_leizhenyu);
}
if(climate.equals("雷阵雨冰雹")) {
    weatherImg.setImageResource(R.drawable.biz_plugin_weather_leizhenyubingbao);
    weatherImg.setTag(R.drawable.biz_plugin_weather_leizhenyubingbao);
}
if(climate.equals("晴")) {
    weatherImg.setImageResource(R.drawable.biz_plugin_weather_qing);
    weatherImg.setTag(R.drawable.biz_plugin_weather_qing);
}
if(climate.equals("沙尘暴")) {
    weatherImg.setImageResource(R.drawable.biz_plugin_weather_shachenbao);
    weatherImg.setTag(R.drawable.biz_plugin_weather_shachenbao);
}
if(climate.equals("特大暴雨")) {
    weatherImg.setImageResource(R.drawable.biz_plugin_weather_tedabaoyu);
    weatherImg.setTag(R.drawable.biz_plugin_weather_tedabaoyu);
}
if(climate.equals("雾")) {
    weatherImg.setImageResource(R.drawable.biz_plugin_weather_wu);
```

```

        Log.d("tagtagtag", String.valueOf(R.drawable.biz_plugin_weather_wu));
        weatherImg.setTag(R.drawable.biz_plugin_weather_wu);
    }

    if (pmImg.getTag() == null) {
        editor.putInt("pmImg", R.drawable.biz_plugin_weather_0_50);
    } else {
        editor.putInt("pmImg", (int)pmImg.getTag());
    }

    if (weatherImg.getTag() == null) {
        editor.putInt("wetherImg", R.drawable.biz_plugin_weather_daxue);
    } else {
        editor.putInt("wetherImg", (int)weatherImg.getTag());
    }

    editor.commit();

    Toast.makeText(MainActivity.this, "更新成功!", Toast.LENGTH_SHORT).show();

    boolean update = false;
    updateBar(update);
}

```

(3) TodayWeather parseXML(String xmldata)方法调用 SharedPreferences(TodayWeather todayWeather1)方法。

```

private TodayWeather parseXML(String xmldata) { //解析xml数据
    TodayWeather todayWeather = null;
    int fengxiangCount = 0;
    int fengliCount = 0;
    int dateCount = 0;
    int highCount = 0;
    int lowCount = 0;
    int typeCount = 0;
    String ffxiang[], fhigh[], flow[], ftype[], fdate[];
    ffxiang = new String[4];
    fhigh = new String[4];
    flow = new String[4];
    ftype = new String[4];
    fdate = new String[4];
}

```

```

try {
    XmlPullParserFactory fac = XmlPullParserFactory.newInstance(); //创建生产
XML 的 pull 解析器的工厂
    XmlPullParser xmlPullParser = fac.newPullParser(); //使用工厂获取 pull 解析器
    xmlPullParser.setInput(new StringReader(xmldata)); //使用解析器读取当前的
xml 流
    int eventType = xmlPullParser.getEventType(); //获取当前事件的状态
    Log.d("myWeather", "parseXML");
    /**
     * 我们知道 pull 解析是以事件为单位解析的因此我们要获取一开始的解析标记
type, 之后通过 type 判断循环来读取文档
     * 注意: 当解析器开始读取 xmldata 的时候已经开始了, 指针 type 在 xml 的第一行
开始。pull 解析是指针从第一行开始读取到最后一行以事件为单位读取的解析方式
     */
    while (eventType != XmlPullParser.END_DOCUMENT) {
        switch (eventType) {
            case XmlPullParser.START_DOCUMENT:
                break;
            case XmlPullParser.START_TAG:
                Log.d("start", "start!!!");
                if (xmlPullParser.getName().equals("resp")) { //回应??
                    todayWeather = new TodayWeather();
                }
                if (todayWeather != null) {
                    if (xmlPullParser.getName().equals("city")) {
                        eventType = xmlPullParser.next();
                        todayWeather.setCity(xmlPullParser.getText());
                    } else if (xmlPullParser.getName().equals("updatetime")) {
                        eventType = xmlPullParser.next();
                        todayWeather.setUptime(xmlPullParser.getText());
                    } else if (xmlPullParser.getName().equals("shidu")) {
                        eventType = xmlPullParser.next();
                        todayWeather.setShidu(xmlPullParser.getText());
                    } else if (xmlPullParser.getName().equals("wendu")) {
                        eventType = xmlPullParser.next();
                        todayWeather.setWendu(xmlPullParser.getText());
                    } else if (xmlPullParser.getName().equals("pm25")) {
                        eventType = xmlPullParser.next();
                        todayWeather.setPm25(xmlPullParser.getText());
                    } else if (xmlPullParser.getName().equals("quality")) {
                        eventType = xmlPullParser.next();
                        todayWeather.setQuality(xmlPullParser.getText());
                    } else if (xmlPullParser.getName().equals("fengxiang")) { //
获取第一次出现 fengxiang 标签的值

```

```

        eventType = xmlPullParser.next();
        if(fengxiangCount==0){
            todayWeather.setFengxiang(xmlPullParser.getText());
        }else{
            ffxiang[fengliCount-1]=xmlPullParser.getText();
        }
        fengxiangCount++;
    } else if (xmlPullParser.getName().equals("fengli")&&
fengliCount == 0) {
        eventType = xmlPullParser.next();
        todayWeather.setFengli(xmlPullParser.getText());
        fengliCount++;
    } else if (xmlPullParser.getName().equals("date")) {
        eventType = xmlPullParser.next();
        if(dateCount==0){
            todayWeather.setDate(xmlPullParser.getText());
        }else{
            fdate[dateCount-1]=xmlPullParser.getText();
        }
        dateCount++;
    } else if (xmlPullParser.getName().equals("high")) {
        eventType = xmlPullParser.next();
        if(highCount==0){

todayWeather.setHigh(xmlPullParser.getText().substring(2).trim());//substring 指截掉
首字母起长度为2的字母, trim 指去掉空格
        }else{
            fhigh[highCount-
1]=xmlPullParser.getText().substring(2).trim();
        }
        highCount++;
    } else if (xmlPullParser.getName().equals("low")) {
        eventType = xmlPullParser.next();
        if(lowCount==0){

todayWeather.setLow(xmlPullParser.getText().substring(2).trim());
        }else{
            flow[lowCount-
1]=xmlPullParser.getText().substring(2).trim();
        }
        lowCount++;
    } else if
(xmlPullParser.getName().equals("type")&&typeCount<=8) {

```

```

        eventType = xmlPullParser.next();
        if(typeCount==0) {
            todayWeather.setType(xmlPullParser.getText());
        } else if(typeCount>=2) {
            ftype[(typeCount/2-1)]=xmlPullParser.getText();
        }
        typeCount++;
    }

    todayWeather.setFuturefengxiang(ffxiang);
    todayWeather.setFuturedate(fdate);
    todayWeather.setFuturehigh(fhigh);
    todayWeather.setFuturelow(flow);
    todayWeather.setFuturetype(ftype);
    SharedPreferences(todayWeather);

    break;
case XmlPullParser.END_TAG:
    break;
}

eventType = xmlPullParser.next();

}
} catch (XmlPullParserException e) {
    e.printStackTrace();
} catch (IOException e) {
    e.printStackTrace();
}
}
return todayWeather;
}

```

(4) 赋值给初始页面中的各种控件。

```

void initView() {
    SharedPreferences weatherinfo=(SharedPreferences)
    getSharedPreferences("shared",MODE_PRIVATE);

    city_name_Tv = (TextView) findViewById(R.id.title_city_name);
    cityTv = (TextView) findViewById(R.id.city);
    timeTv = (TextView) findViewById(R.id.time);
    humidityTv = (TextView) findViewById(R.id.humidity);
    weekTv = (TextView) findViewById(R.id.week_date);
    pmDataTv = (TextView) findViewById(R.id.pm_date);
    pmQualityTv = (TextView) findViewById(R.id.pm2_5_quality);
}

```

```

        pmImg = (ImageView) findViewById(R.id. pm2_5_img);
        temperatureTv = (TextView) findViewById(R.id. tempreture);
        climateTv = (TextView) findViewById(R.id. climate);
        windTv = (TextView) findViewById(R.id. wind);
        weatherImg = (ImageView) findViewById(R.id. weather_img);

        int id=weatherinfo.getInt("wetherImg", R.drawable. biz_plugin_weather_qing);
        weatherImg.setImageResource(id);
        int idpm=weatherinfo.getInt("pmImg", R.drawable. biz_plugin_weather_0_50);
        pmImg.setImageResource(idpm);
        city_name_Tv.setText(weatherinfo.getString("city", "北京")+"天气");
        cityTv.setText(weatherinfo.getString("city", "北京"));
        timeTv.setText(weatherinfo.getString("updatetime", "7: 00"));
        humidityTv.setText(weatherinfo.getString("shidu", "50%"));
        pmDataTv.setText(weatherinfo.getString("pm25", "50"));
        weekTv.setText(weatherinfo.getString("date", "1月1日"));
        temperatureTv.setText(weatherinfo.getString("high", "0℃")+"-
"+weatherinfo.getString("low", "5℃"));
        climateTv.setText(weatherinfo.getString("type", "晴"));
        windTv.setText(weatherinfo.getString("fengli", "3级"));
        pmQualityTv.setText(weatherinfo.getString("quality", "优"));
    }

```

```

*****
void initFutureWeather() {
    SharedPreferences weatherinfo=(SharedPreferences)
getSharedPreferences("shared", MODE_PRIVATE);
    otherweather=new TextView[4];
    otherday=new TextView[4];
    otherweaimg=new ImageView[4];
    otherclimate=new TextView[4];
    otherwind=new TextView[4];

    for(int a=0;a<weaimg.length;a++) {
        if(a<2) {
            otherweather[a]=(TextView)views.get(0).findViewById(weather[a]);
            otherday[a]=(TextView)views.get(0).findViewById(dat[a]);
            otherclimate[a]=(TextView)views.get(0).findViewById(climate[a]);
            otherwind[a]=(TextView)views.get(0).findViewById(wind[a]);
            otherweaimg[a]=(ImageView)views.get(0).findViewById(weaimg[a]);

```

```

        otherweather[a].setText(weatherinfo.getString("futurehigh"+a,"0°C")+"-
"+weatherinfo.getString("futurelow"+a,"5°C"));
        otherday[a].setText(weatherinfo.getString("futuredate"+a,"1月1日"));
        otherwind[a].setText(weatherinfo.getString("futurefengxiang"+a,"北风"));
        otherclimate[a].setText(weatherinfo.getString("futuretype"+a,"晴"));

otherweaimg[a].setImageResource(weatherinfo.getInt("otherweaing"+a,R.drawable.biz_pl
ugin_weather_qing));

    }else{
        otherweather[a]=(TextView)views.get(1).findViewById(weather[a]);
        otherday[a]=(TextView)views.get(1).findViewById(dat[a]);
        otherclimate[a]=(TextView)views.get(1).findViewById(climate[a]);
        otherwind[a]=(TextView)views.get(1).findViewById(wind[a]);
        otherweaimg[a]=(ImageView)views.get(1).findViewById(weaimg[a]);
        otherweather[a].setText(weatherinfo.getString("futurehigh"+a,"0°C")+"-
"+weatherinfo.getString("futurelow"+a,"5°C"));
        otherday[a].setText(weatherinfo.getString("futuredate"+a,"1月1日"));
        otherwind[a].setText(weatherinfo.getString("futurefengxiang"+a,"北风"));
        otherclimate[a].setText(weatherinfo.getString("futuretype"+a,"晴"));

otherweaimg[a].setImageResource(weatherinfo.getInt("otherweaing"+a,R.drawable.biz_pl
ugin_weather_qing));
    }

}
}

```