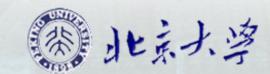
移动平台应用软件开发

Activity基础

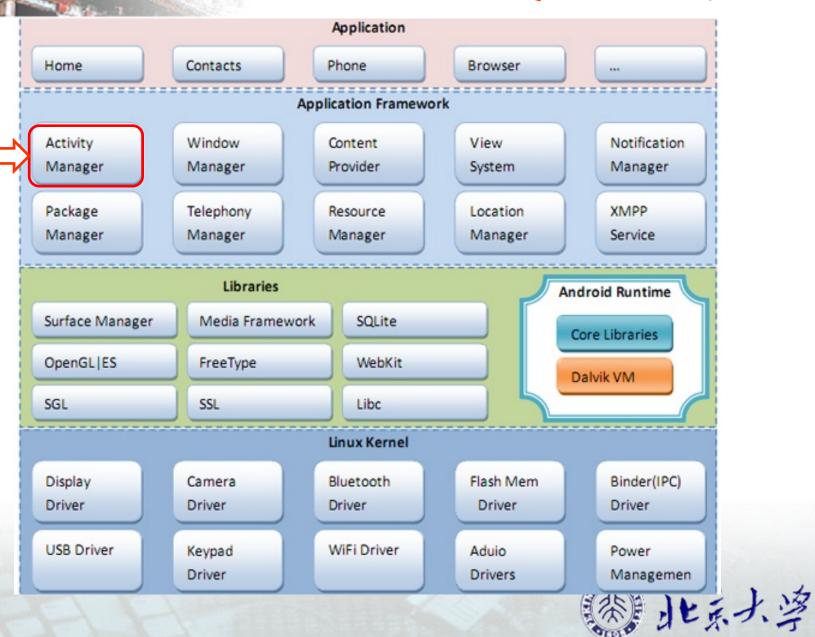
主讲: 秘齐勋

zhangqx@ss.pku.edu.cn

《移动平台应用软件开发》课程建设小组 北京大学 二零一八年

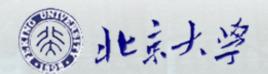


Android系统架构



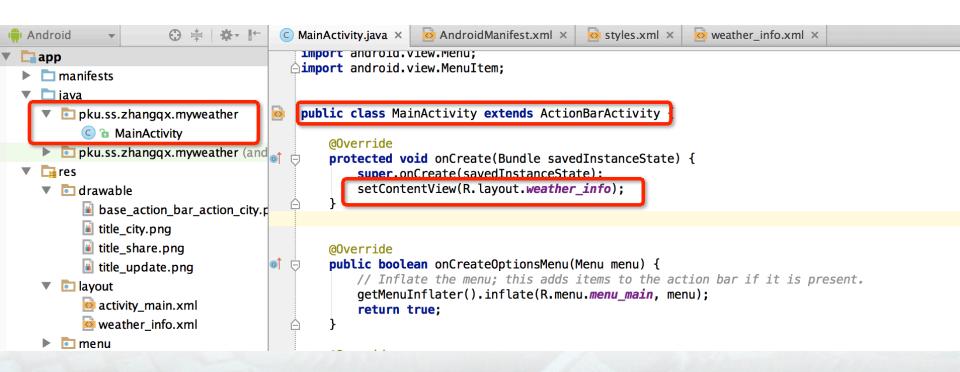
提纲

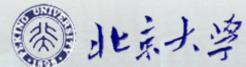
- · 什么是Activity
- 如何创建Activity
- 如何创建和加载布局
- · 如何在AndroidManifest中注册



什么是Activity

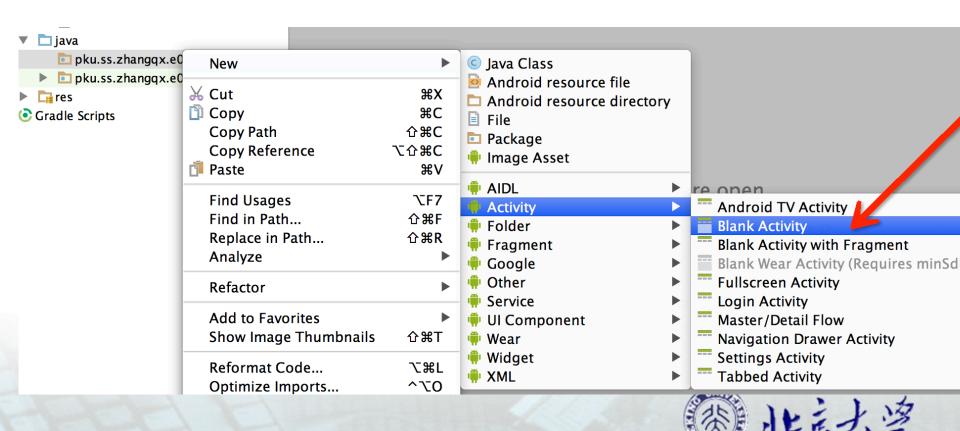
- Activity(活动)是一种可以包含用户界面的组件 ,主要用于与用户进行交互。
- 一个应用程序可以包含零个或多个Activity。





如何创建Activity

- · 创建工程时,可以自动创建一个Activity。
- 可以通过工具向导创建一个Activity。



如何创建Activity

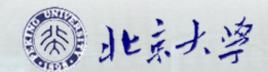
• 可以通过手动方式创建一个Activity。

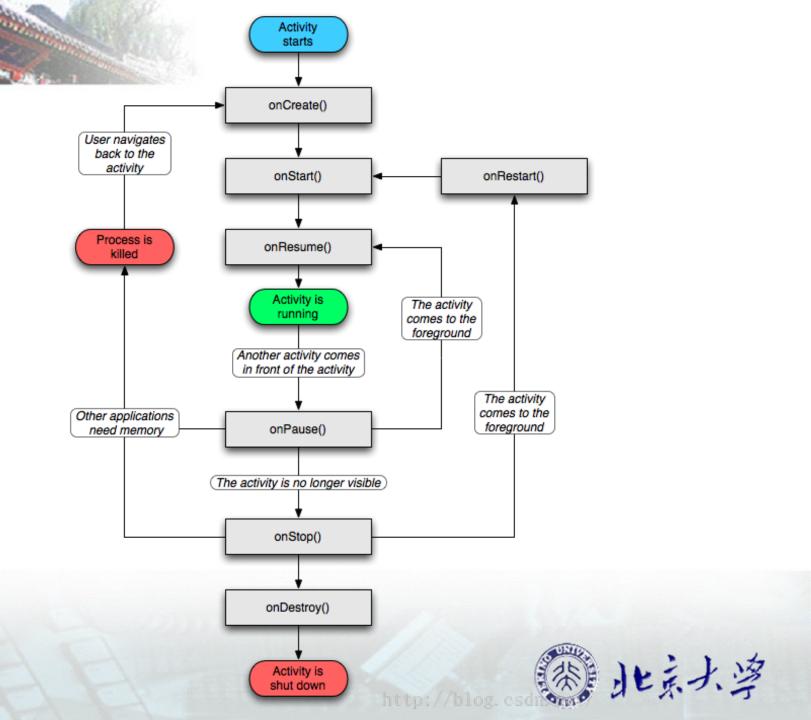
▼ 🛅 java		<pre>import android.os.bundle; import android.view.Menu:</pre>	
▼ 🛅 pku.ss.zha	New		© Java Class
© Main pku.ss.zha res drawable layout activity menu mipmap values Gradle Scripts	Cut Copy Copy Path Copy Reference	第X 第C 分第C 飞分第C 第V	Android resource file Android resource directory File Package Image Asset AIDL Activity Folder Fragment Google Other Service UI Component Wear Widget XML
	Find Usages Find in Path Replace in Path Analyze	℃F7 企業F 企業R	
	Refactor	get¥e	
	Add to Favorites Show Image Thumb	▶ onails ☆無T	
	Reformat Code Optimize Imports	0Z.v	

如何创建Activity

- · 继承自Activity类。
- 重写Oncreate方法。

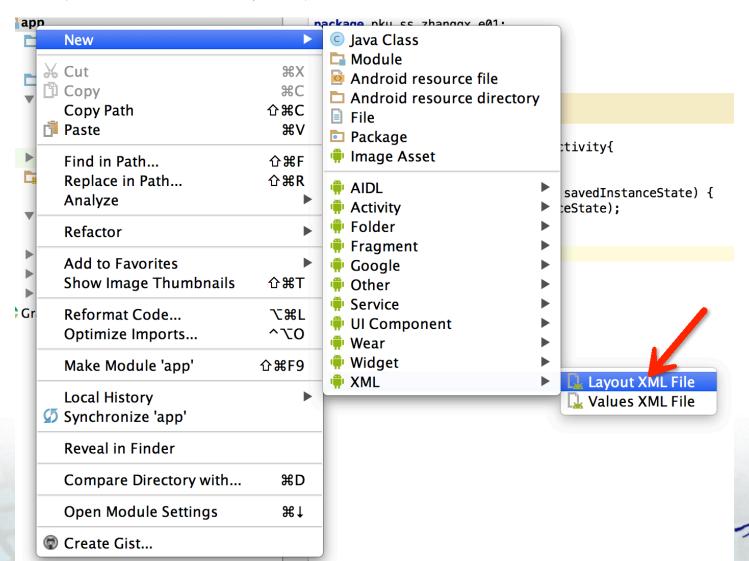
```
package pku.ss.zhangqx.e01;
import android.app.Activity;
import android.os.Bundle;
* Created by zhangqx on 15/3/9.
public class MyActivity extends Activity{
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
```





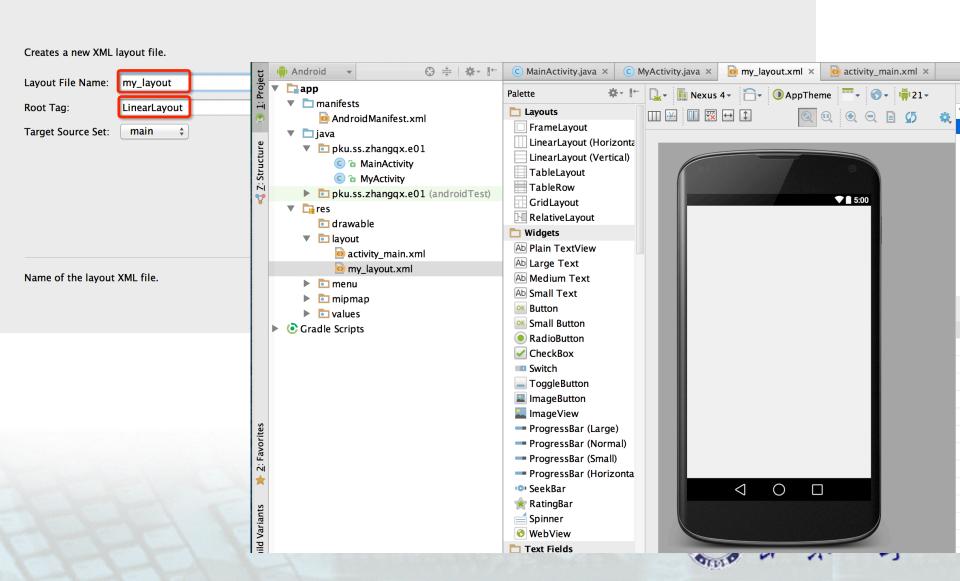
如何创建和加载布局

• 可以通过向导创建布局









加载布局

· 在Activity中通过setContentView(View)接口把 布局加载到Activity创建的窗口上。

```
package pku.ss.zhangqx.e01;
import android.app.Activity;
import android.os.Bundle;
/**
 * Created by zhangqx on 15/3/9.
public class MyActivity extends Activity{
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
       setContentView(R.layout.my_layout);
```

如何在AndroidManifest.xml 文件中注册Activity

- 所有Activity都要在AndroidManifest.xml文件中进行注册才能生效。
- · 放到<application>标签中,通过<activity>标签进行注册。包含以下内容:
 - android:name 指定Activity名称
 - android:label 指定标题栏的内容
- 通过<intent-filter>标签,指定程序的主Activity

```
<activity
   android:name=".MyActivity"
android:label="MvActivity">
   <intent-filter>
        <action android:name="android.intent.action.MAIN" />
        <category android:name="android.intent.category.LAUNCHER" />
        </intent-filter>
```

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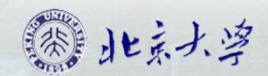
R.Java文件

- · 在项目中添加的任何资源都会自动在其 中生成一个对应的资源id。
- 这个文件永远不要去修改它。

```
public static final class layout {
    public static final int abc action bar title item=0x7f040000;
   public static final int abc_action_bar_up_container=0x7f040001;
   public static final int abc action bar view list nav layout=0x7f040002;
   public static final int abc action menu item layout=0x7f040003;
    public static final int abc action menu layout=0x7f040004;
   public static final int abc action mode bar=0x7f040005;
    public static final int abc_action_mode_close_item_material=0x7f040006;
    public static final int abc_activity_chooser_view=0x7f040007;
   public static final int abc activity chooser view include=0x7f040008;
    public static final int abc_activity_chooser_view_list_item=0x7f040009;
   public static final int abc expanded menu layout=0x7f04000a;
   public static final int abc list menu item checkbox=0x7f04000b;
   public static final int abc_list_menu_item_icon=0x7f04000c;
   public static final int abc list menu item layout=0x7f04000d;
   public static final int abc_list_menu_item_radio=0x7f04000e;
   public static final int abc popup menu item layout=0x7f04000f;
    public static final int abc screen content include=0x7f040010;
   public static final int abc_screen_simple=0x7f040011;
   public static final int abc_screen_simple_overlay_action_mode=0x7f040012:
    public static final int abc screen toolbar=0x7f040013;
    public static final int abc search dropdown item icons 2line=0x7f040014;
    public static final int abc search view=0x7f040015;
    public static final int abc_simple_dropdown_hint=0x7f040016;
    public static final int activity main=0x7f040017;
   public static final int my_layout=0x7f040018;
   public static final int support simple spinner dropdown item=0x7f040019;
```

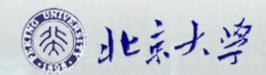
Android Studio 技巧

- 代码自动补全
 - control+space (Mac)
 - control+alt+space (Windows)
- 格式化代码
 - option + command + L (Mac)
 - control+ alt+ L (Windows)
- 代码合并为一行
 - control + shift + J (Mac)



动手练习

- 使用向导创建一个Activity。
- 手动创建一个Activity,并重写OnCreate方法。
- · 手动创建一个Layout, 并在程序中加载
- 在AndroidManifest.xml文件中注册Activity
 , 并设置为主活动



Q&A

本讲结束!

