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NRSS

【Android】Gadle改变应用名称(appName)的两种方法

🛗 Sep 1, 2016 | 🗁 Android

应用场景

- App在debug/release编译环境下,想通过改变appName来给予区分。
- productFlavors 增加各种编译参数时,比如更换 applicationId 包名, appName也需要跟着变动。

方法一: 设置manifestPlaceholders

```
android {
......
defaultConfig{
......
manifestPlaceholders = [k_appName : "哈啰"] // 设置默认的k_appName
}

// 依据debug/release变动的话设置如下
buildTypes {
    debug {
        manifestPlaceholders = [k_appName : "Debug哈啰"]
    }

// 依据flavors变动的话设置如下
productFlavors {
    autoTest {
        manifestPlaceholders = [k_appName : "AT哈啰"]
    }

appStore {
    // do nothing
}
```

```
}

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```

方法二: 定义resValue

误。

```
android {
   defaultConfig{
       resValue "string", "app_name", "哈啰"
                                             // 设置默认的app name
   }
   // 依据debug/release变动的话设置如下
   buildTypes {
       debug {
           resValue "string", "app_name", "Debug哈啰"
       }
   }
   // 依据flavors变动的话设置如下
   productFlavors {
       autoTest {
           resValue "string", "app_name", "AT哈啰"
       }
       appStore {
           // do nothing
   }
}
```

因为gradle会根据 resValue 的定义自动生成 <string name="app_name"> 资源。

所 以 需 要 将 /res/values/strings.xml 中 默 认 生 成 的

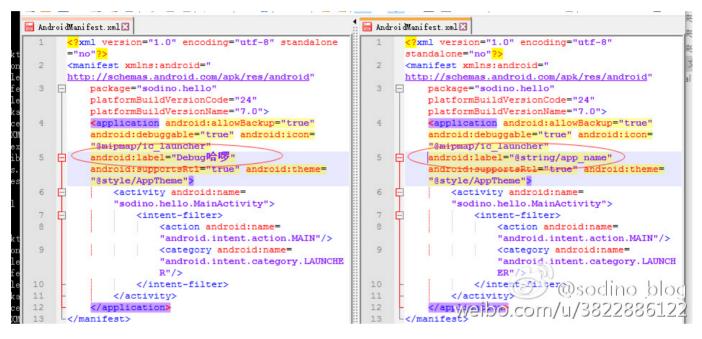
<string name="app_name">HelloWorld</string> 删除,避免出现重复的string资源定义错

Error:Execution failed for task ':app:mergeAutoTestDebugResources'.
> [string/app_name] D:\github\HelloWorld\app\src\main\res\values\strings.xml

两者比较

直接用APK反编译后的图来对比吧:

左边是 manifestPlaceholders 方法一的实现; 右边是 resValue 定义方法二的实现



compare

可以看出, manifestPlaceholders 属于字符串直接替换赋值,当应用有 **多语言** 切换时,应用名是仍然会是固定的"Debug哈啰",不会变化。

而 resValue 定义显得委婉一些,只要 res/values-en/strings.xml 中有 <string app name> 的外语定义,是会跟随系统的语言变化而切换app名称的。

后记

本文同时给出了 buildTypes 和 productFlavors 中的示例,但在实际处理中,请根据实际情况自己选择使用。

如果两者都声明了 app_name ,则最后以 buildTypes 的设定为准。

原因是Gradle的资源合并功能中在权重上:

BuildType > Flavor > main > Dependecies.

Technical docs > New Build System >

Resource Merging

The Gradle-base build system uses a new merging mechanism for resources. In previous build system, merging was done by passing a list or resources in the overlays would be automatically added (default behavior is for overlays is to only override existing resources, not create new

One of the goals of the Gradle-based build system was providing more flexibility, and one frequently asked feature request was the ability to merging mechanism that is run ahead of *aapt* and generates a single, merged, resources folder that is fed to *aapt*. This merging has the adva implemented (ie it can rerun the merge by only applying the change in a single file).

The merged resources are coming from 3 types of sources:

- . The main resources, associated with the main sourceSet, generally located in src/main/res
- . The variant overlays, coming from the Build Type, and Flavor(s).
- · The Library Project dependencies, which contribute resources through the res entry in their aar bundle.

Priority Order

The priority order is the following:

BuildType -> Flavor -> main -> Dependencies.

This means that if a resource is declared in both the Build Type and in main, the one from Build Type will be selected

Note that for the scope of the merging, resources of the same (type, name) but different qualifiers are handled separately.

This means that if src/main/res has

- res/layout/foo.xml
- res/layout-land/foo.xml

and src/debug/res has

res/layout/foo.xml



resource.merging

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