HarmonyOS 组件库使用实践

目录

- 1. HarmonyOS组件库介绍
- 2. 组件库规划
- 3. Lottie组件库实战
- 4. glide组件库实战
- 5. eventbus组件实战
- 6. HarmonyOS组件库如何下载 & 参与贡献

引导视频



HarmonyOS发布16000+系统级接口

HarmonyOS Developer	设
▼ ark.annotation	
Overview	
Annotation	
▶ ark.system	
ohos.aafwk.ability	
ohos.aafwk.ability.continuation	
ohos.aafwk.ability.delegation	
ohos.aafwk.ability.fraction	
ohos.aafwk.ability.startsetting	
ohos.aafwk.abilityjet.activedata	
 ohos.aafwk.abilityjet.databinding 	
ohos.aafwk.content	
ohos.accessibility	
ohos.accessibility.ability	
▶ ohos.account	
▶ ohos.account.app	
ohos.ace.ability	
ohos.agp.animation	
ohos.agp.animation.styledsolutions	•
ohos.agp.animation.timelinecurves	
▶ ohos.agp.colors	
ohos.agp.components	

ohos.agp.components.element

Since:

1

Annotation Types Summary

文档

支持

Annotation Type	Description
Permanent	Annotates persistent memory objects.
Unowned	Annotates an object without ownership to eliminate circular reference.
UnownedLocal	Annotates a method or a single local variable.
UnownedOuter	Annotates a class to eliminate circular reference.
Weak	Annotates weak reference objects.

下一篇

Permanent

HarmonyOS应用开发难点



Java生态: 百万级开源库 Android生态: 十万级开源库

HarmonyOS开源组件库生态

分类	子类	开源库个数
UI	基础控件	800
	自定义view	
动画图形类	动画	73
框架类	框架类	139
安全类	权限请求	18
	加解密	
工具类	注入注解	172
	公共库	
	传感器	
	事件总线	
	插件化	
	手势类	
	二维码	
	日志	
	其他	

分类	子类	开源库个数
网络类	网络请求	
	json	55
	上传下载	
	异步通信	
文件数据类	后台处理	15
	数据库	
	序列化	
	映射	
多媒体	音频	23
	视频	
图片缓存	图片选择	9
	图片加载	
	图片压缩	
	图片处理	
基础功能	基础功能	27

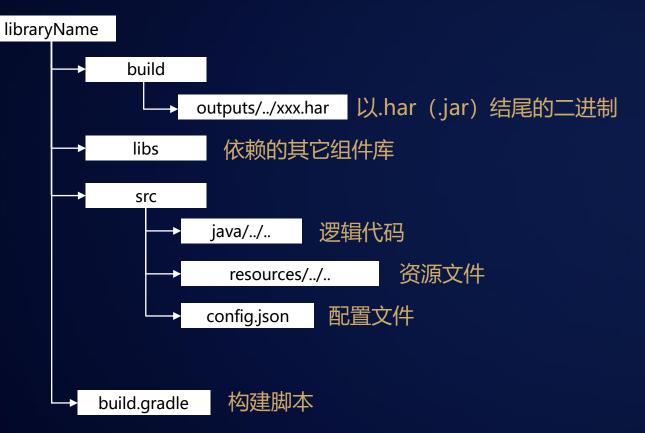
多设备形态可用

多端部署

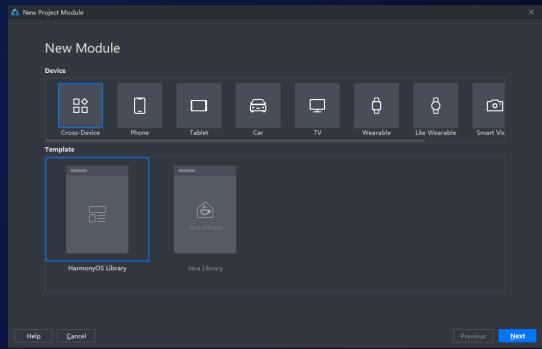
性能优化

HarmonyOS开源组件库格式介绍

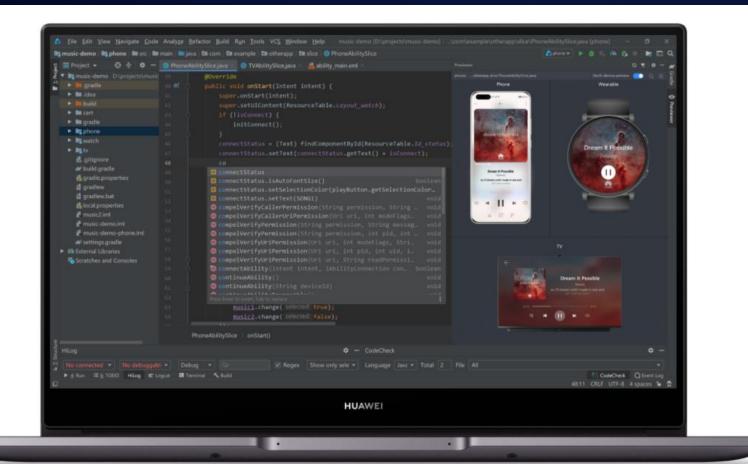
组件库目录结构



Deveco IDE中的组件库开发模板



HarmonyOS应用开发





https://developer.harmonyos.com/cn/develop/deveco-studio

HarmonyOS组件库使用

1. Har包引用(build.gradle)

```
dependencies {
  implementation fileTree(dir: 'libs', include: ['*.jar', '*.har'])
}
```

2. 源文件引用(build.gradle)

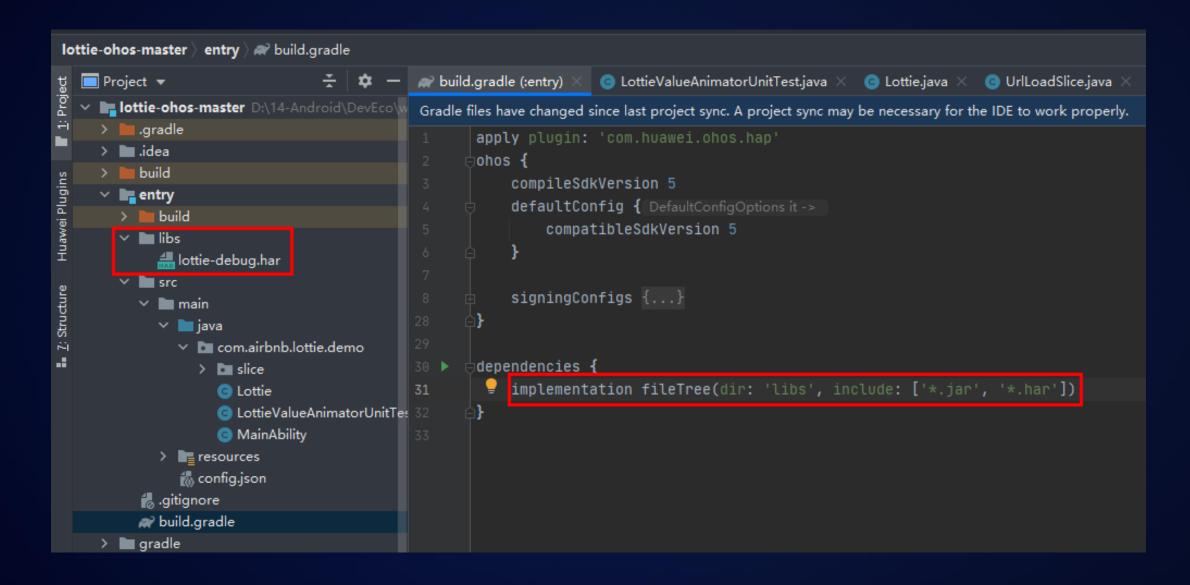
```
dependencies {
  implementation project(":library")
}
```

3. Maven仓引用(build.gradle)

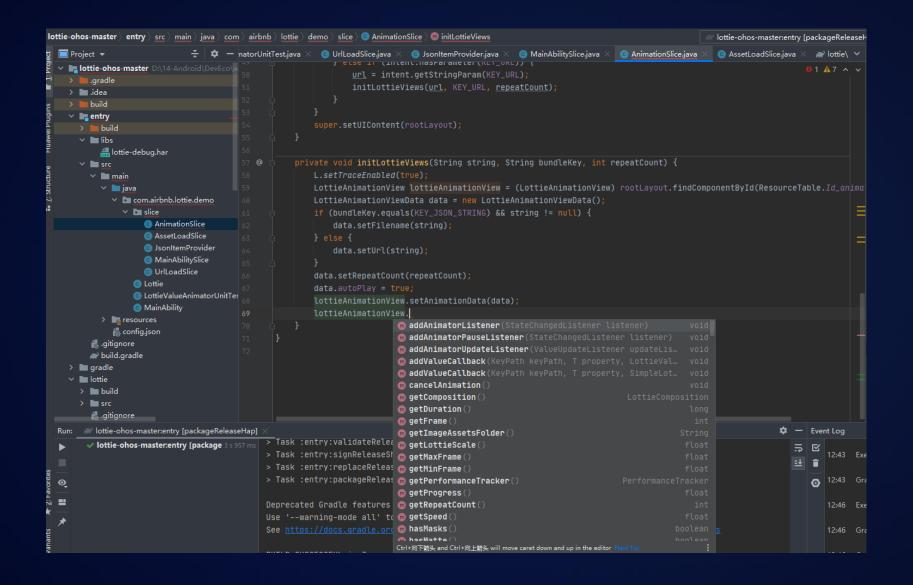
```
方式一:
dependencies {
    implementation 'com.huawei.har:mylibrary:1.0.1'
}

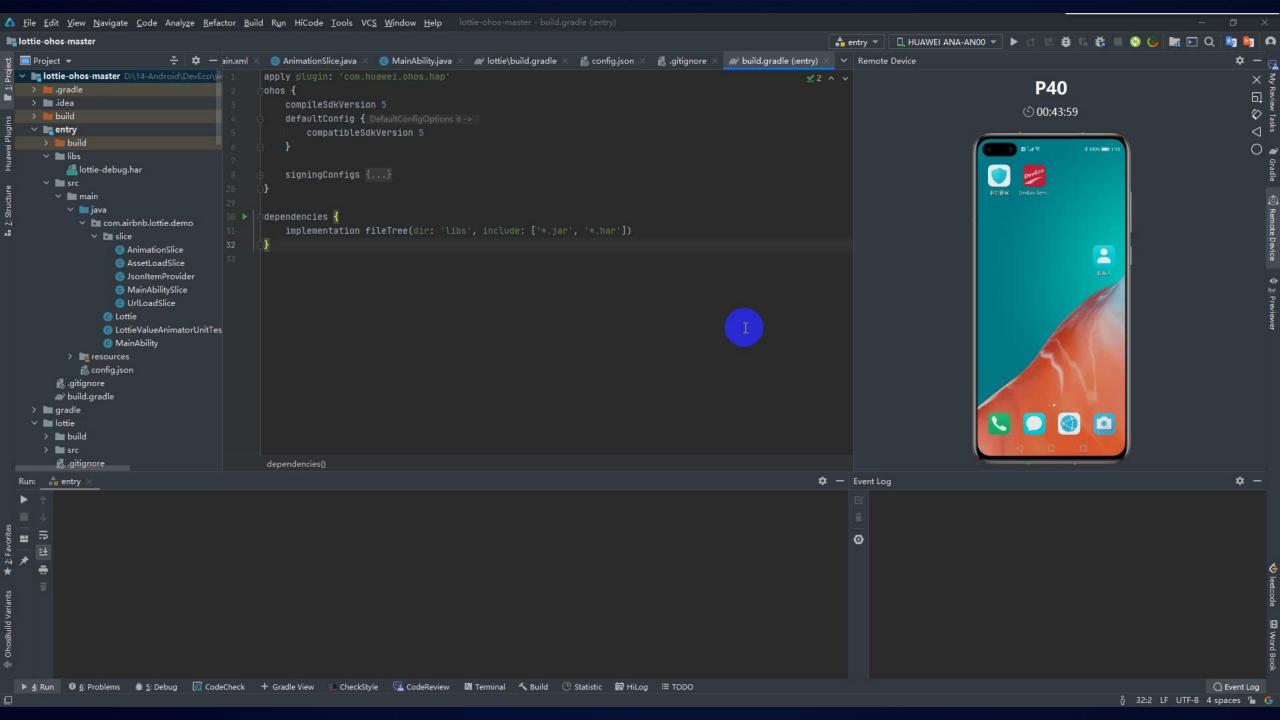
方式二:
allprojects{
    repositories {
        maven {
            url 'file://D:/01.localMaven/' //本地或远程Maven仓
        }
    }
}
```

Lottie开源组件库的引用 – har包引用



在代码中导入Lottie相关功能类后,直接调用对应的功能接口





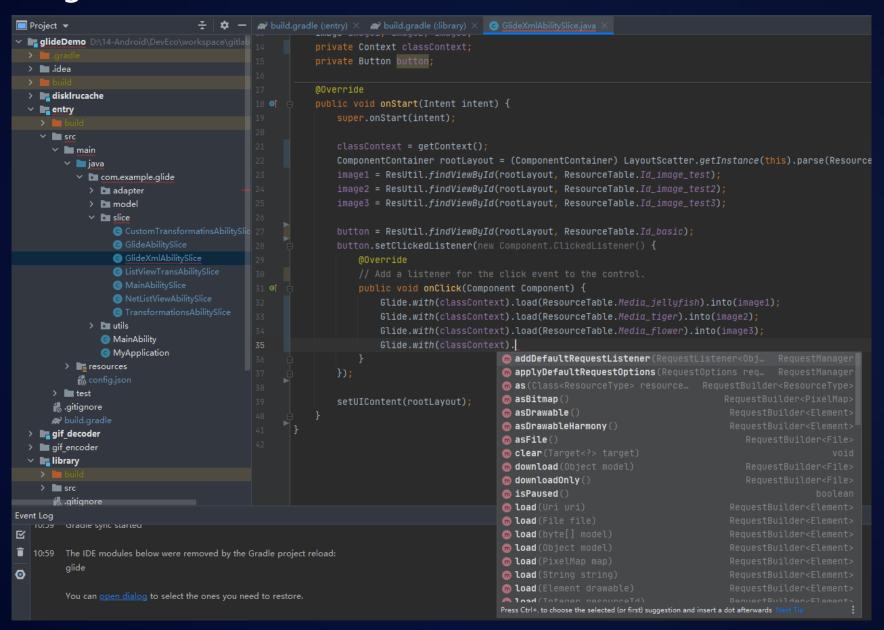
glide开源组件库的引用 - 源文件引用

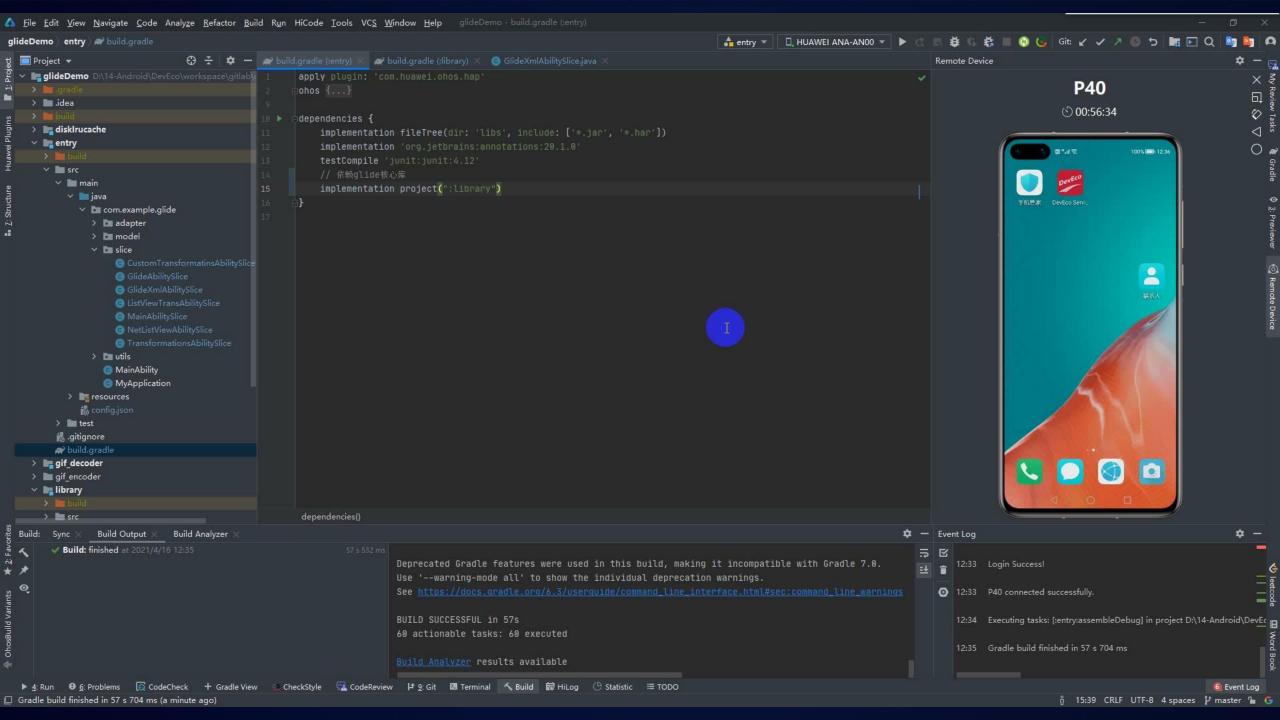
```
glideDemo > entry > 🔊 build.gradle
                                                                                                                          antry ¬
  Project ▼
                                                                   glideDemo D:\14-Android\DevEco\workspace\gitlab 1
                                                     apply plugin: 'com.huawei.ohos.hap'
                                                     ohos {...}
     > 🖿 .idea
                                                     dependencies {
Huawei Plugins
     > 📭 disklrucache
                                                         implementation fileTree(dir: 'libs', include: ['*.jar', '*.har'])
    entry
                                                         implementation 'org.jetbrains:annotations:20.1.0'
                                                         testCompile 'junit:junit:4.12'
       > src
                                                         // 依赖glide核心库
         🚜 .gitignore
                                                         implementation project(":library")
Structure
         > 📭 gif decoder
     > gif encoder
     🗸 📭 library
       > src
                                      dependencies -
         🚜 .gitignore
                                          //依赖gif解码库
                                          implementation project(':gif_decoder')
         build.gradle
       🚜 .gitignore
                                          //依赖缓存核心算法库
       implementation project(':disklrucache')
       捐 gradle.properties
                                          implementation 'org.jetbrains:annotations:20.1.0'
       ■ gradlew
                                          testCompile 'junit:junit:4.12'
       gradlew.bat
       ≝ LICENSE
       local.properties

₫ README.md

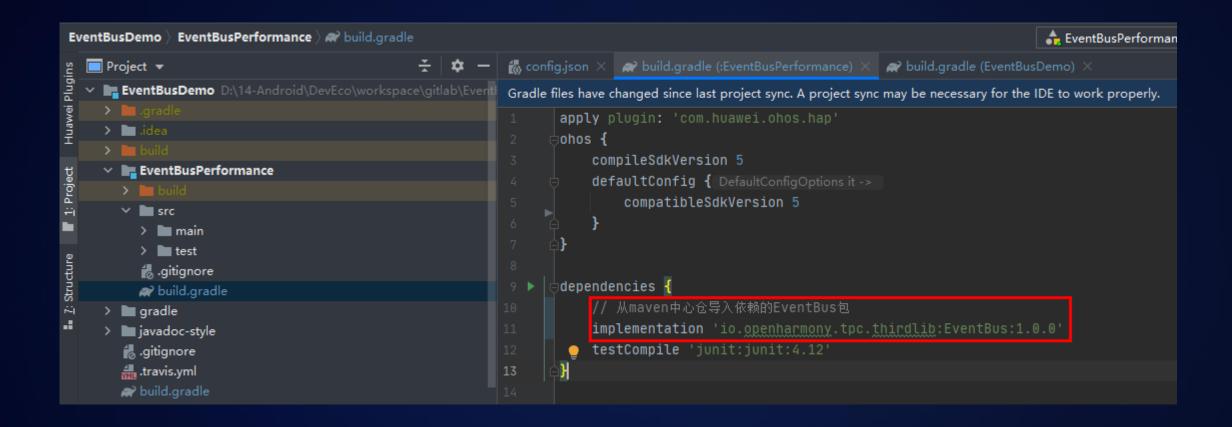
       settings.gradle
```

在代码中导入glide类后,直接调用对应的功能接口

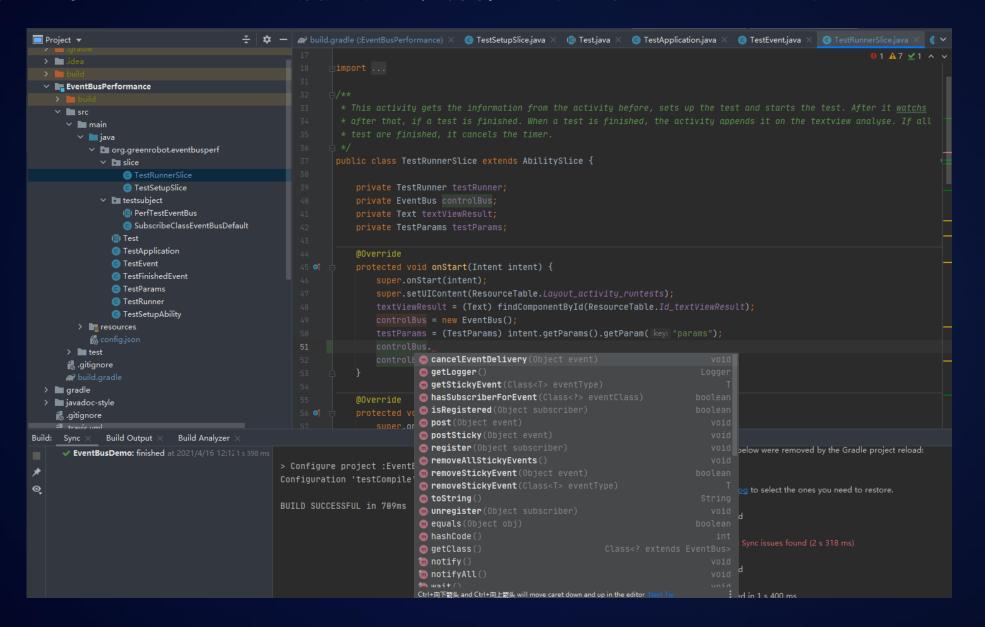


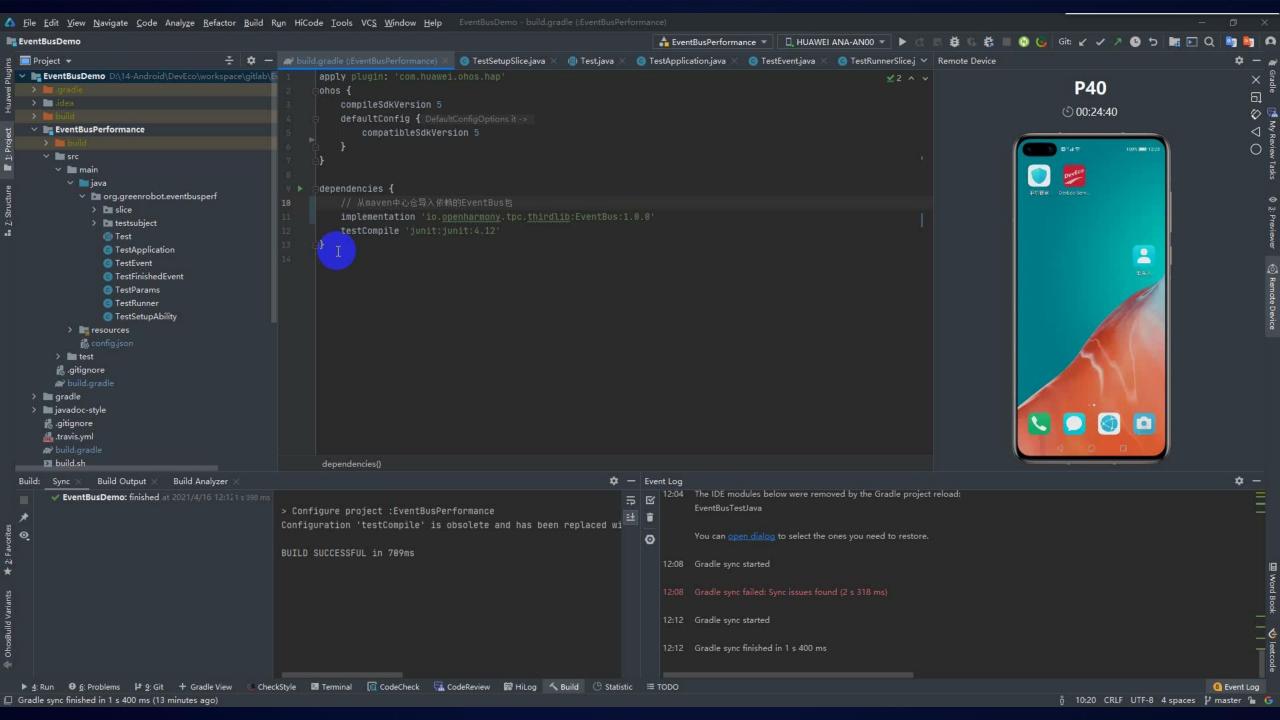


eventbus开源组件库的引用 – maven引用



在代码中导入eventbus相关功能类后,直接调用对应的功能接口





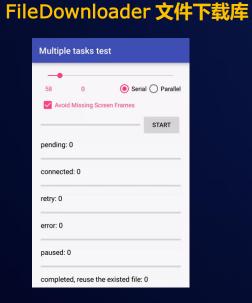
HarmonyOS多设备的流转



其它开源组件库Demo效果展示

BezierMaker 简单的贝赛尔曲线绘制方法





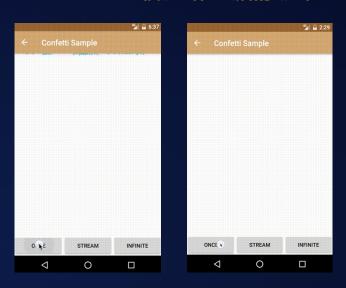
cardslib 卡片式布局库



FlycoTabLayout 自定义TabLayout组件



confetti 模仿雪花飘落的动画



ohos-Universal-Image-Loader





开源组件库获取路径

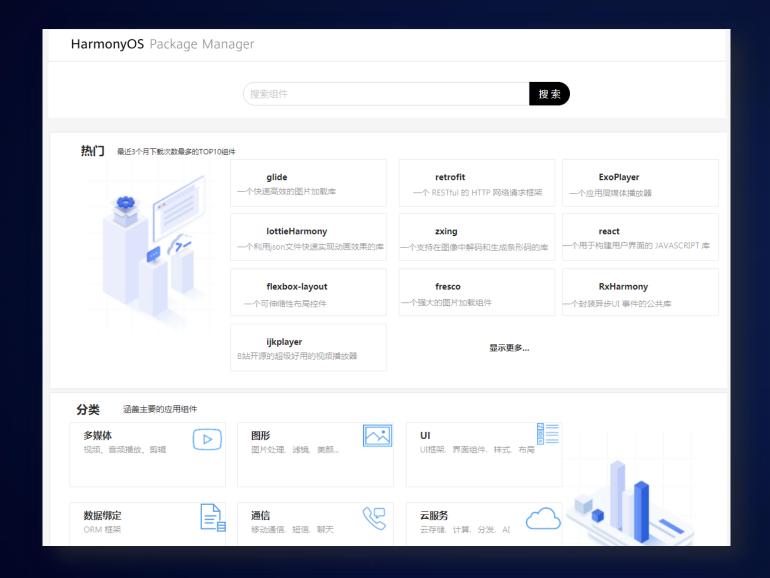
Gitee 开源链接: https://gitee.com/openharmony-tpc



开发者联盟开源组件库详情



Har包管理平台供开发者统一获取HarmonyOS开源组件二进制





https://hpm.harmonyos.com/hapm/