



在现有Android项目实践

Android Instant Apps

Emma Wong

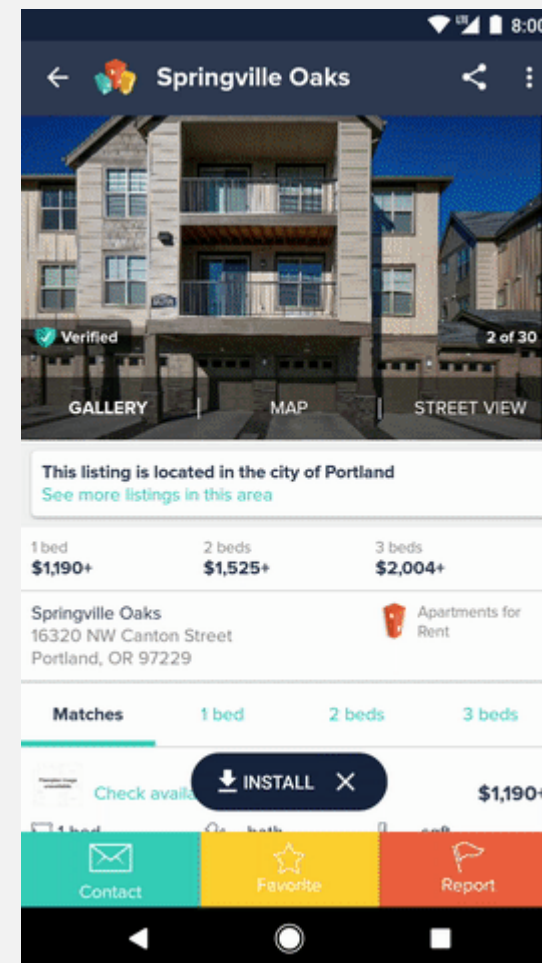


Android Instant Apps



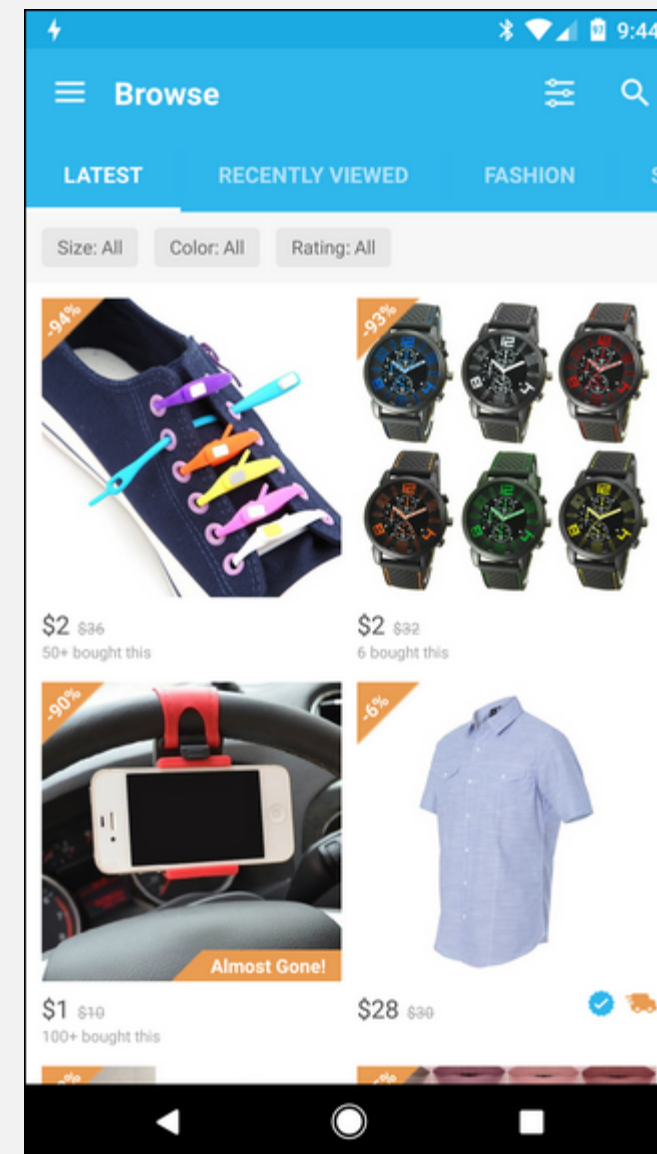
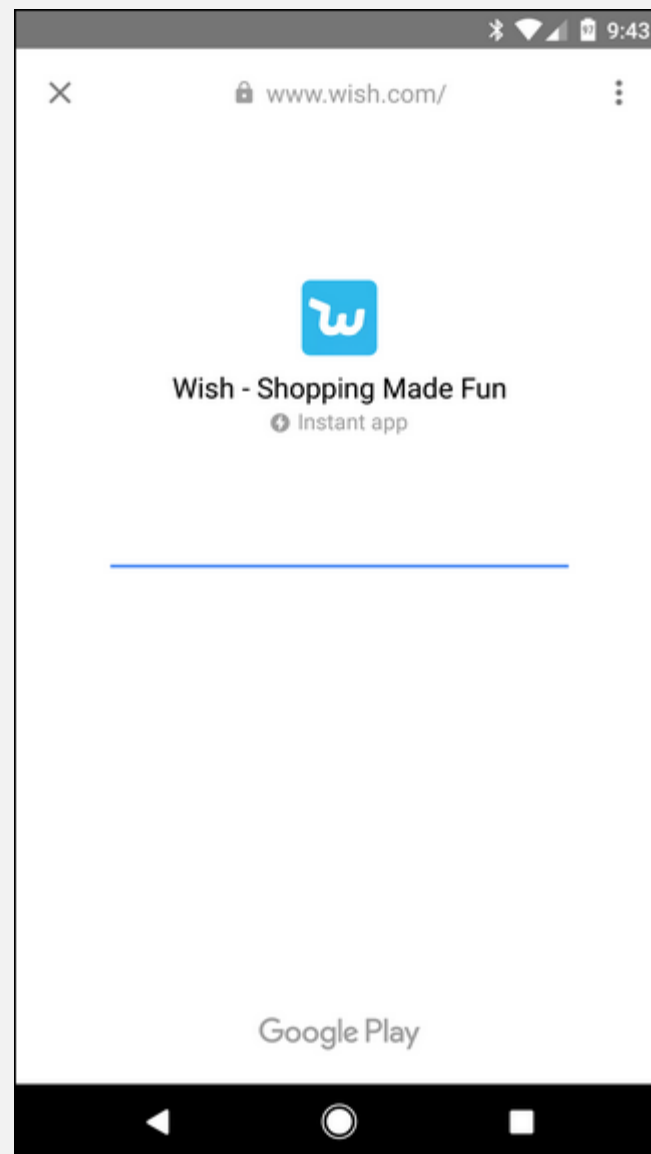
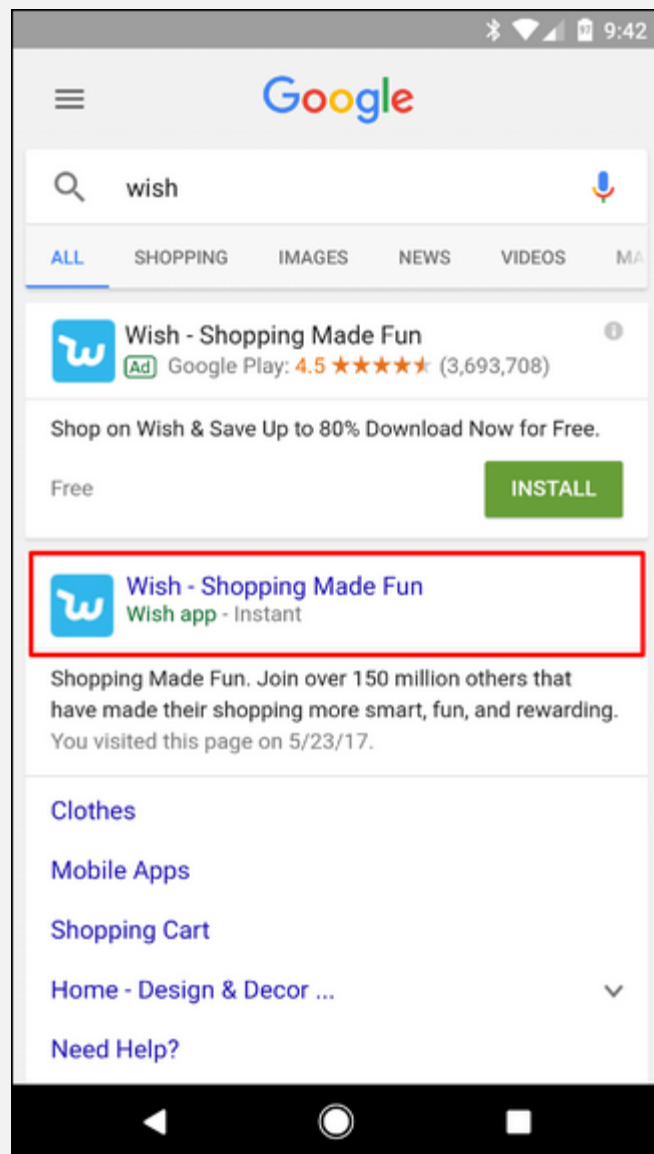
Android Instant Apps

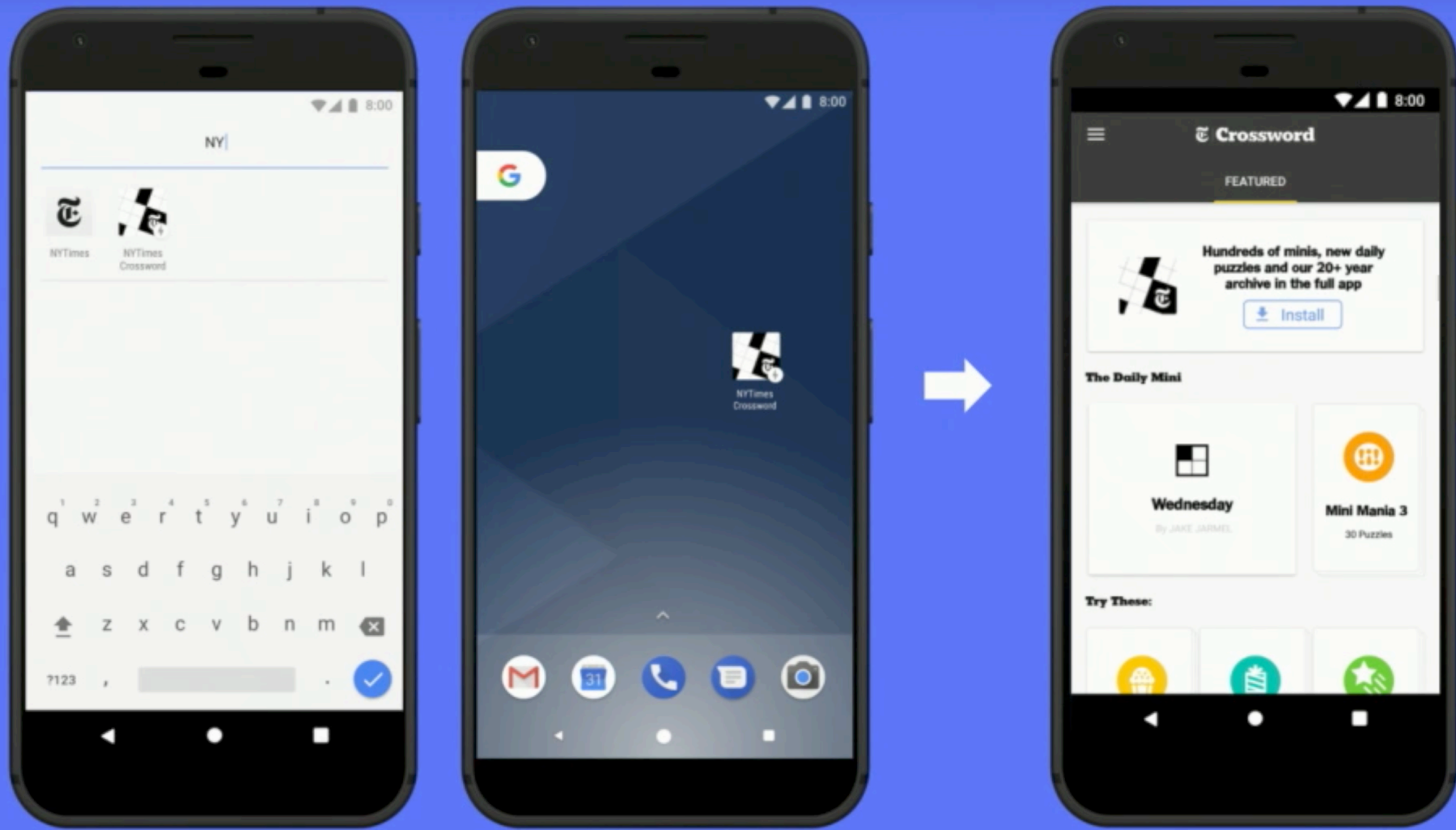
- 透过 URL 直接开启
- 一个或几个功能模块的原生应用
- 轻便快捷的途径去吸引新用户
- 支援Android 6.0或以上,稍后支援5.0
- 正逐步推出



- 在刚推出的Android Studio 3.0 Preview 已开放Instant Apps Development SDK
- 首批支援Nexus 5X, Nexus 6P, Pixel, Pixel XL, Galaxy S7 Android 6.0 或以上
- 兼容性：2016年I/O初次公布Instant Apps说会兼容至4.1 JellyBean, 但今年只说即将支援5.0 Lollipop





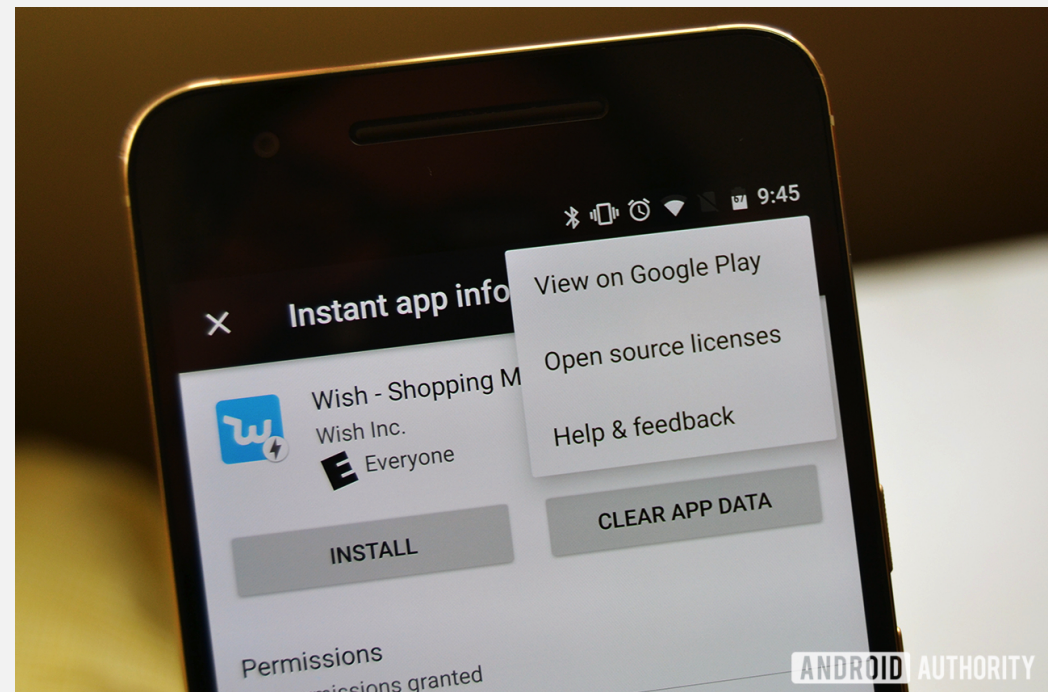


Android O supports searching instant apps from launcher, and put icon to home screen.



- 用两次下载两次，三次以后依此类推。这个流量，有点吃不消。

答案：instant apps will be stored in cache after installed. The cache will be cleared when needed or after reboot, then the users need to download again.





常见疑问

- 是不是恶意软件也可以不用下载安装就能运行了？

答案：To publish instant apps, it must be submitted to Google Play Console to detect malware app.

- 仅仅是为了体验一下，然后个人所有数据包括隐私，就被读取的一干二净？

答案：instant apps uses the runtime permissions model introduced in Android 6.0 (API level 23).



Android Instant App的限制

- Limited device-specific information

不支援

- push notification
- long-running background services
- Externally accessible by content providers,
broadcast receivers



实践 Android Instant Apps

实践 Android Instant Apps

1. 检视选取哪个功能
2. 检视及预备现有project
3. 模块化现有project
4. 测试及发布





检视选取哪个功能

某些情境时，即时需要某些资讯但又不想安装
App 的情境

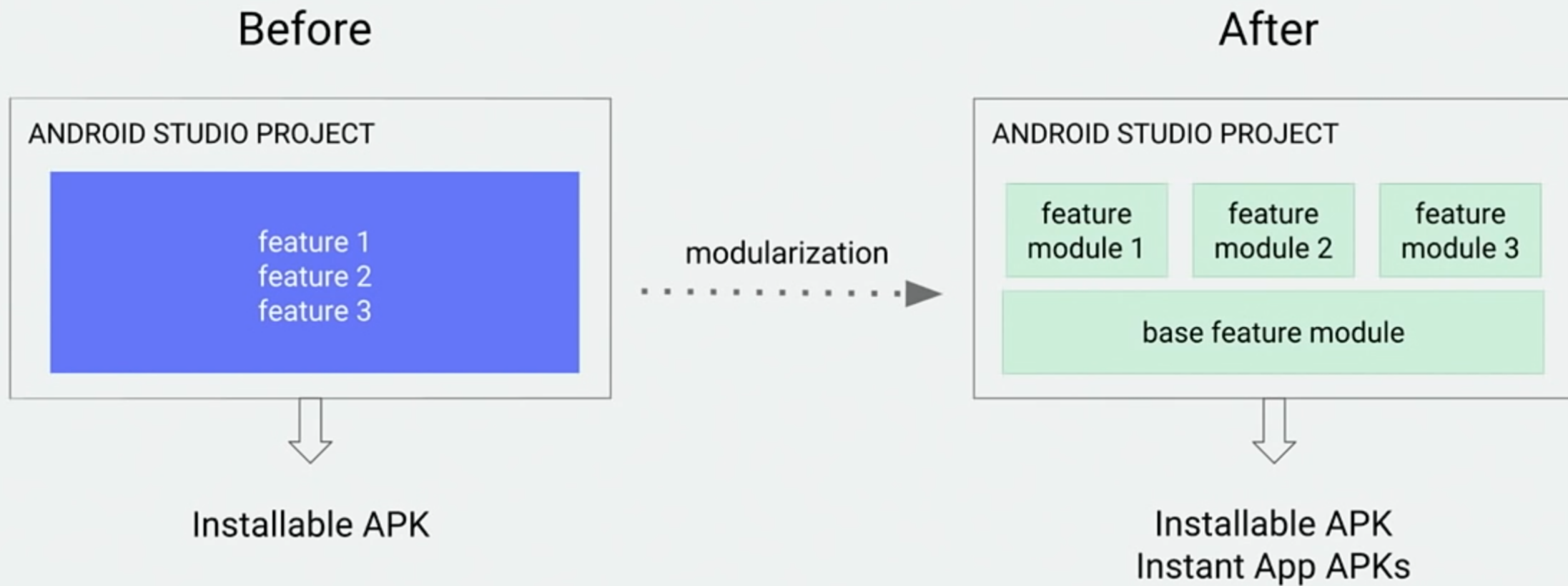


检视及预备现有project

- Trim down your app
- Refactor your app, if necessary
 - For the app features selected for instant apps, structure each into URL-addressable modules that are under 4MB in size
- Implement runtime permissions from Android 6.0
- Identify restricted, unsupported features

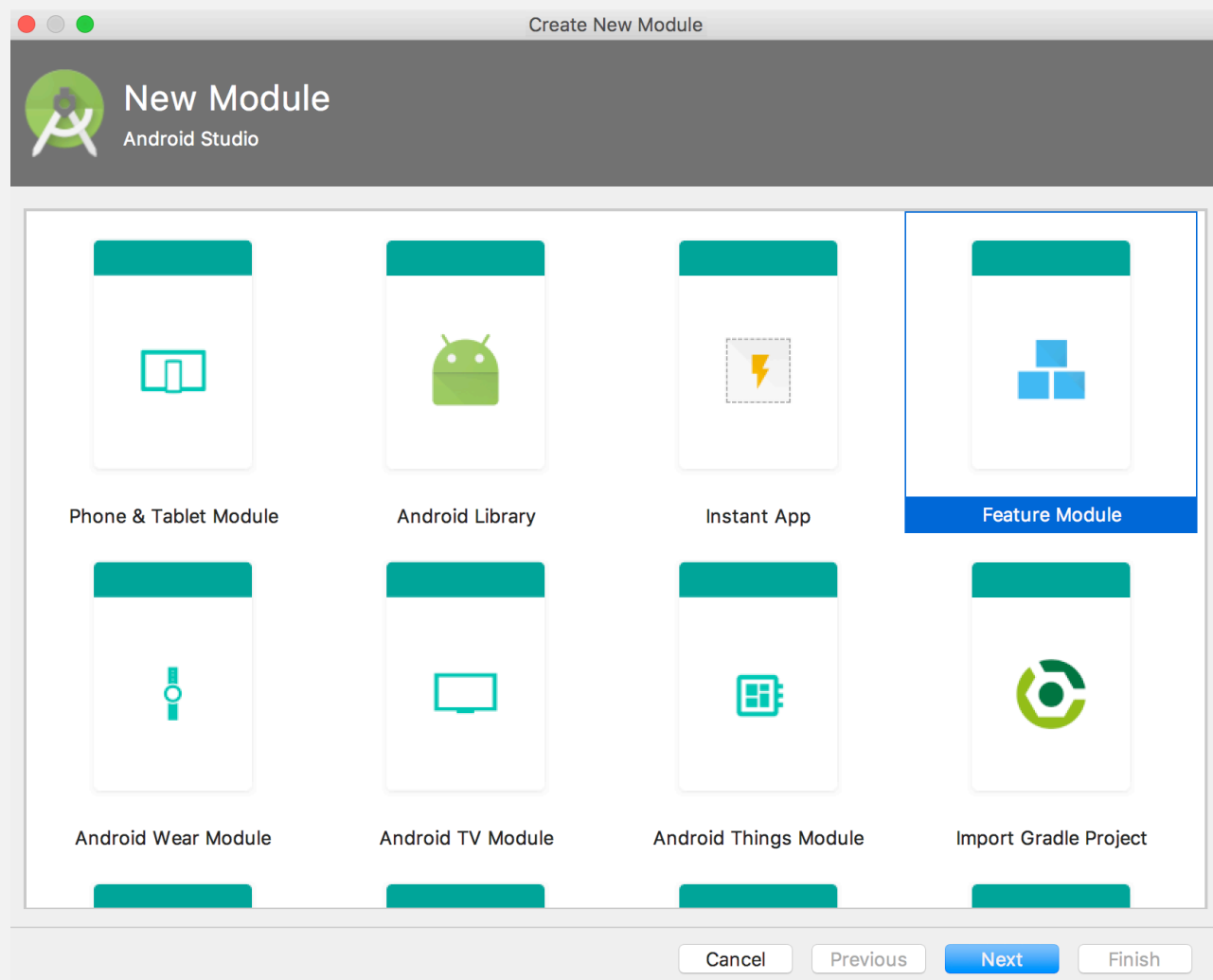


模块化现有project





模块化现有project





Binary Size
Reduction



Refactoring
Support



Device
Expansion



I/O 17 Sessions for Android Instant Apps

Introduction to Android Instant Apps

<https://youtu.be/oispNrpGnIY>

Building an Android Instant App

<https://youtu.be/9Jg1D07NgeI>

Android Instant Apps Best Practices Fireside Chat

<https://youtu.be/F42Rbi3WlIA>

#i17

Thank you, 謝謝

Emma Wong