

Android Camera

课程组织安排

Android系统课程

- 百问科技，韦东山老师：
<https://www.100ask.net/index>
 - Android Camera专题（Charles主讲）

01 工具使用

02 硬件访问服务

03 Android基础知识

04 灯光系统

05 binder

06 输入系统

07 音频系统

08 显示系统

09 蓝牙模块电路设计

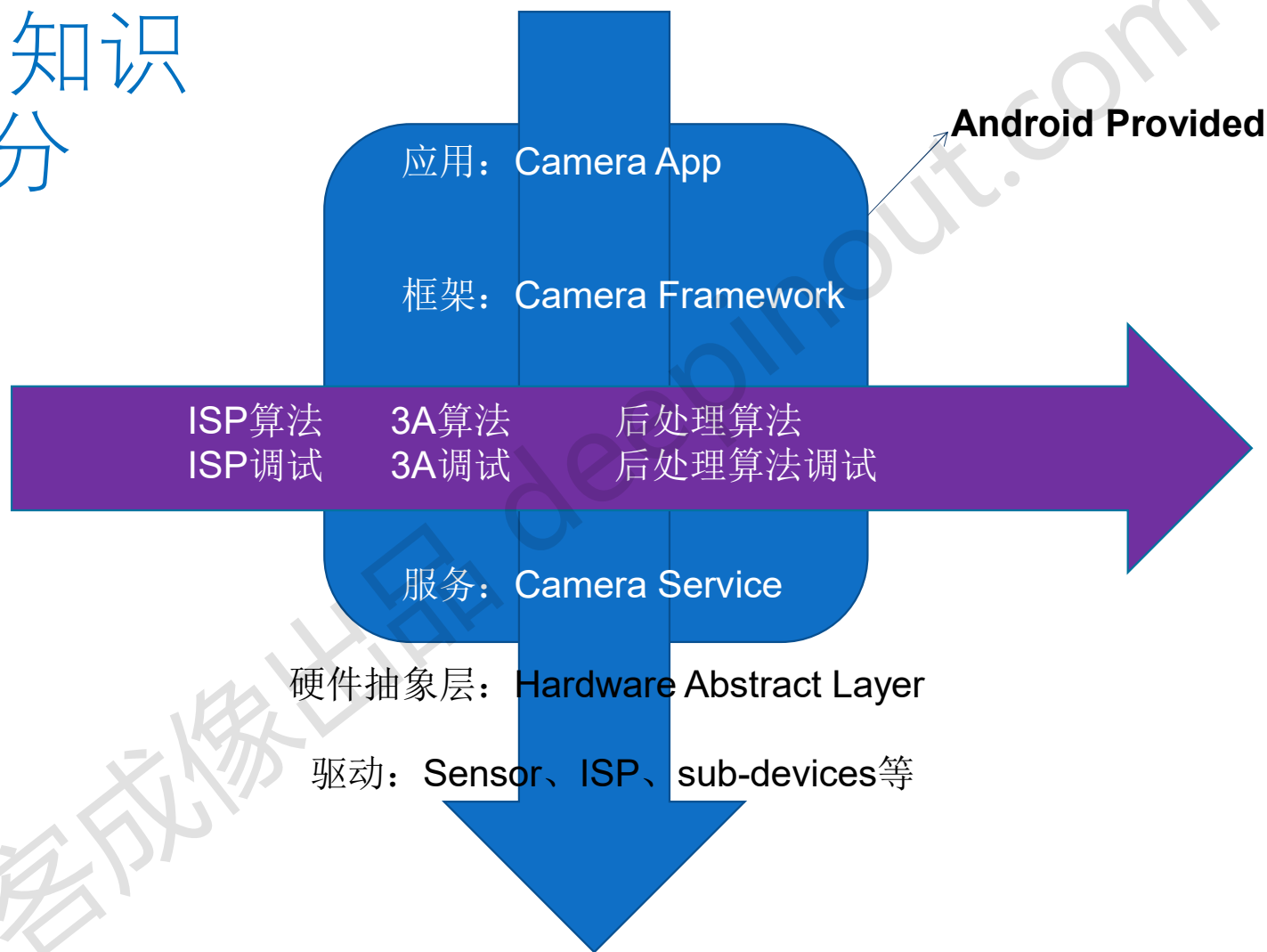
10 BLE协议栈

11 【音频专题加餐】音频系统专题_ALSA声卡 for Androider

Agenda

- Camera知识体系划分
- 我们准备讲什么
- Camera专题相关资料
- 课程配套开发环境

Camera知识 体系划分



我们准备讲什么？

| 专题 | 内容 |
|-----------------|--|
| App层 | <ul style="list-style-type: none">• OpenCamera• CTS• ITS |
| SDK | <ul style="list-style-type: none">• Camera2 API• Camera2 App Framework |
| Camera Metadata | <ul style="list-style-type: none">• Android CameraMetadata• VendorTag |
| Camera服务层 | <ul style="list-style-type: none">• libcameraservice |
| Camera HIDL | <ul style="list-style-type: none">• Camera HAL3 HIDL |
| HAL3 实现 | <ul style="list-style-type: none">• V4L2 Camera HALv3 |
| 性能分析 | <ul style="list-style-type: none">• Camera Systrace解读• ... |
| 调试技巧 | <ul style="list-style-type: none">• 常见问题Log分析• Dumpsys media.camera解读• ... |
| 长期更新 | <ul style="list-style-type: none">• Android大版本升级新功能解读 |

Camera专题相关资料

| 专题 | 资料 |
|-------------------|---|
| OpenCamera | <ul style="list-style-type: none">• https://opencamera.org.uk/ |
| CTS | <ul style="list-style-type: none">• cts/tests/camera/src/android/hardware/camera2/cts |
| ITS | <ul style="list-style-type: none">• cts/apps/CameraITS• cts/apps/CtsVerifier/src/com/android/cts/verifier/camera/its |
| Camera2 API | <ul style="list-style-type: none">• frameworks/base/core/java/android/hardware/camera2 |
| Camera服务层 | <ul style="list-style-type: none">• frameworks/av/camera/• frameworks/av/services/camera/libcameraservice |
| Camera HIDL | <ul style="list-style-type: none">• hardware/interfaces/camera/ |
| V4L2 Camera HALv3 | <ul style="list-style-type: none">• hardware/libhardware/modules/camera/3_4 |

课程配套开发环境

- 开发板
 - Firefly ROC-RK3399-PC-PLUS
- Android版本
 - android-10.0.0_r45
- 答疑
 - <https://deepinout.com>

Thanks