

Start Here

- Early [LWN overview of Android internals](#) talk given by Karim Yaghmour.
- Yaghmour, [Embedded Android](#) (invaluable and excellent book; NK Labs has a copy.)
- Yaghmour's "Embedded Android" talks at Linaro Connect 2013:
 - [1. Android Internals](#)
 - [2. Working with AOSP](#)
 - [3. Native Android user-space](#)
 - [4. Using and Customizing the Android Framework](#)
- Google's [Android development documentation](#). Note that Project Ara currently doesn't use Gerrit to upload changes; you'll need to use "git push" on each repository you've altered, in the way you normally would.

Internals in detail

- Aleksandar Gargenta, [Deep Dive Into Binder \(slides\)](#), Android Builder's Summit 2013. Binder is Android's lingua franca IPC mechanism.
- Benjamin Zores, [Android Device Porting Walkthrough](#), Android Builder's Summit 2012. (Or, How Lucent Learned to Stop Worrying and Make an Android VoIP Phone.)
- Gargenta, [Android Services Black Magic \(slides\)](#), AnDevCon III.

Other

- Android Ports Project notes on [dealing with the dynamic linker](#)
- AOSP [device porting guide](#) (lots of pretty pictures for software stacks)
- Karim Yaghmour, [Quickstart on extending a HAL](#) (2012)
- [Introduction to Binder](#) (incomplete)
- Building a custom ROM
 - [Part 1](#)
 - [Part 2](#)
- [Android Porting Guide](#)
- [Bionic \(libc\) overview](#)