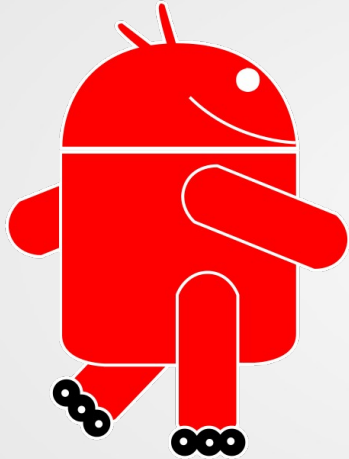


Liberating mobile devices with Replicant and contributing



Replicant

Paul Kocialkowski
paulk@replicant.us

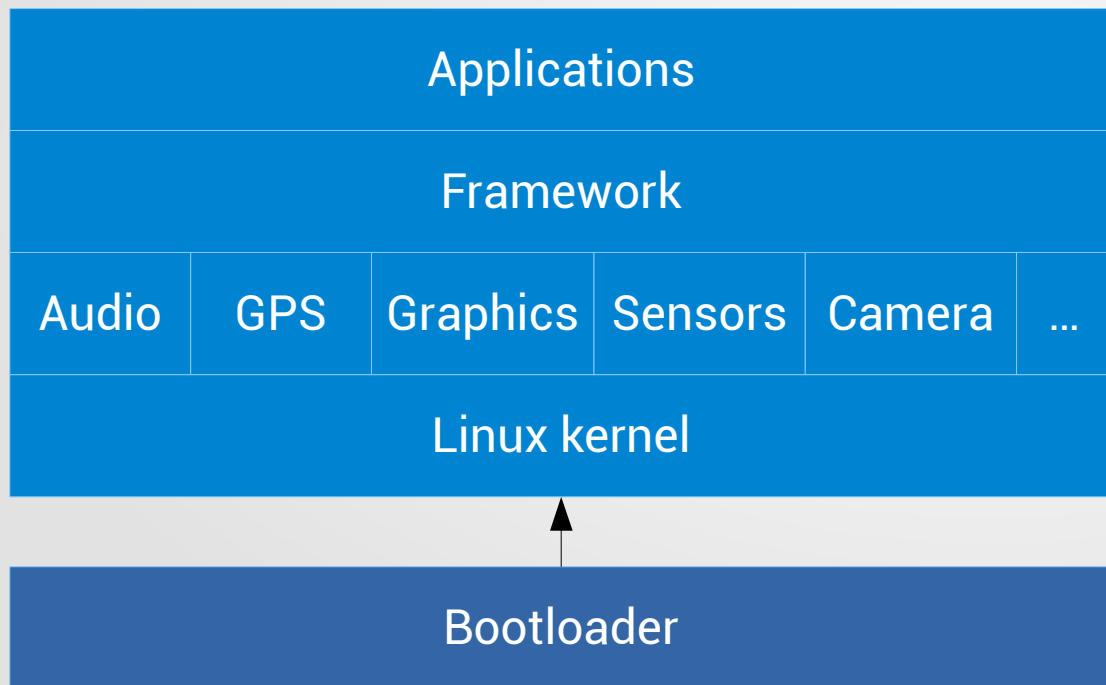
August 13th-17th 2015
Ziegeleipark Mildenberg, Zehdenick



CHAOS
COMMUNICATION
CAMP 2015

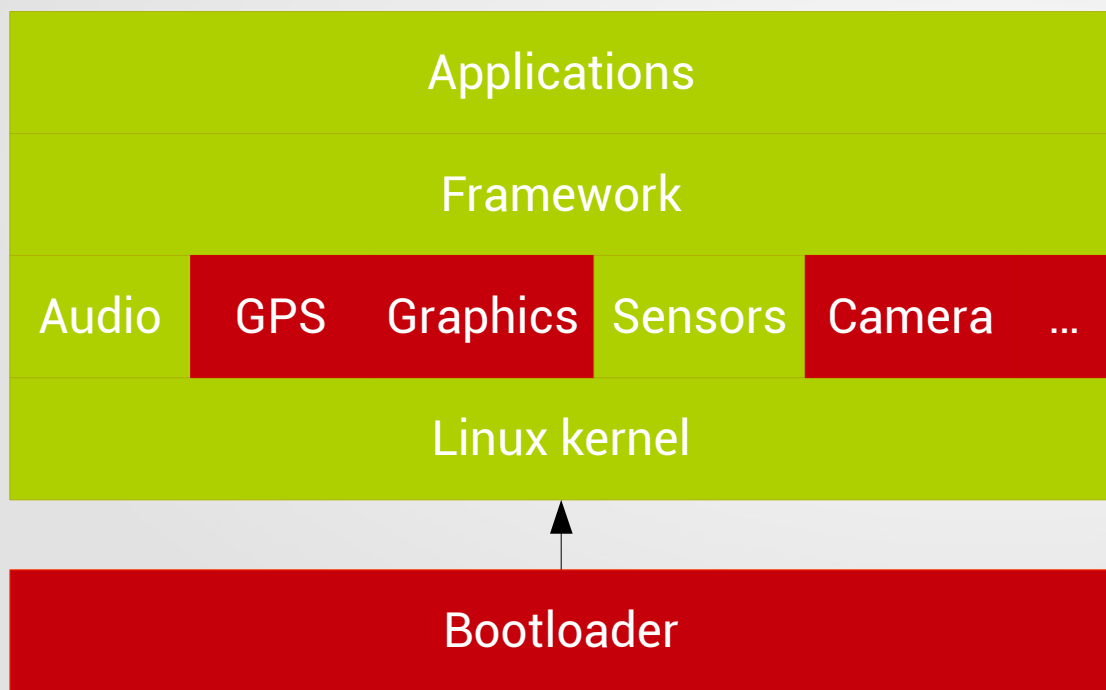
Anatomy of software on mobile devices

Main processor



Anatomy of software on mobile devices

Main processor

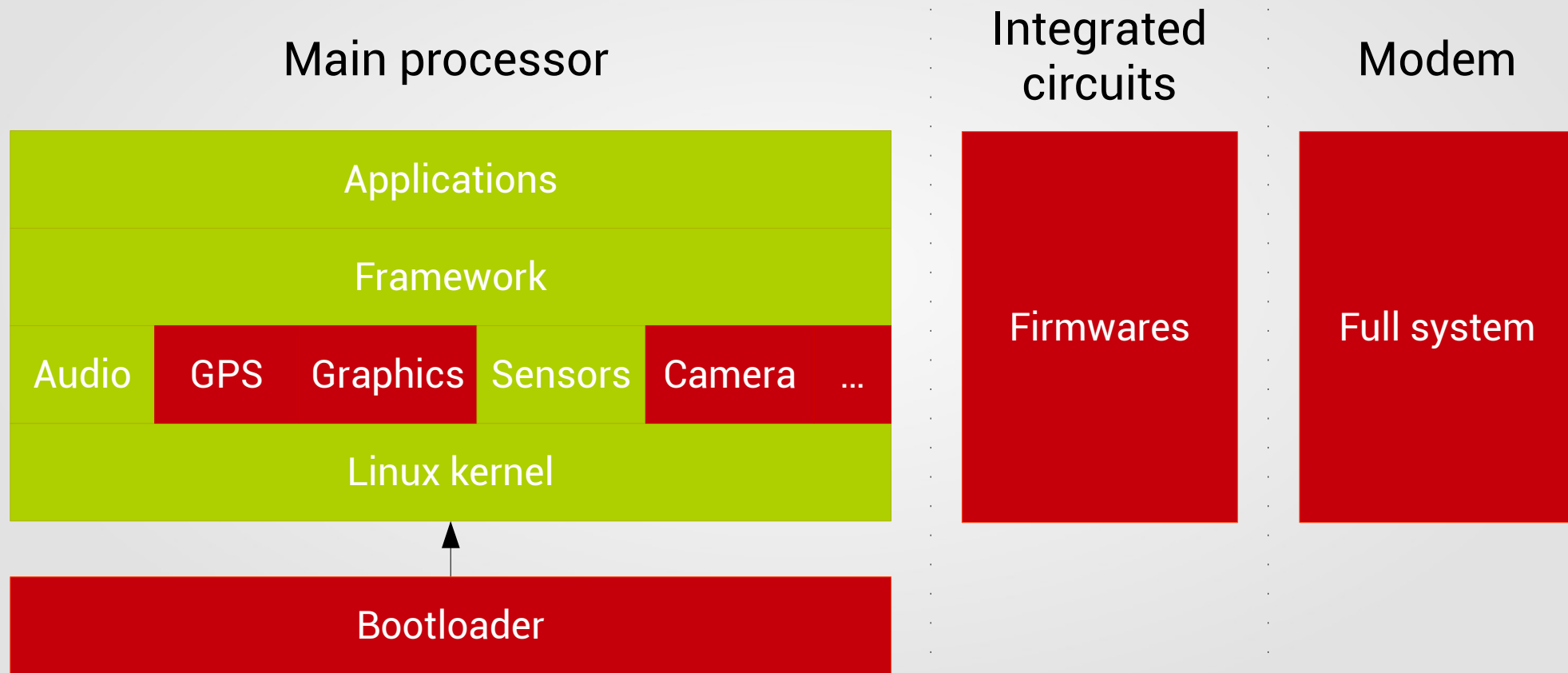


Community mobile system
(e.g. CyanogenMod, Omni):

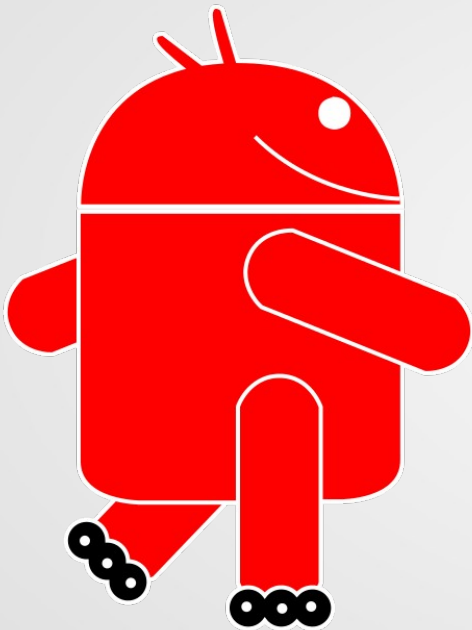
- Free parts
- Non-free parts (problem !)

- Not worked on
(usually non-free)

Anatomy of software on mobile devices



Towards a fully free mobile system



Replicant

- **Fully free** operating system
- Still **usable**, basic features
- First step for **privacy/security** (still many ways to **spy**)
- Still **proprietary** software elsewhere

Replicant milestones



Replicant

Work accomplished so far:

- Up to **12** supported devices
- Free software **replacements** written: audio, camera, sensors, radio interface and more
- **Reused** by CyanogenMod, Omni
- Freeing **bootloaders** when possible

Replicant milestones



Replicant

Work accomplished so far:

- Up to **12** supported devices
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Areas **left out**:

- Modem system
- Firmwares
- GPU

Developing on Replicant

Learn more about Replicant:

- <http://www.replicant.us/>

Donations are welcome
(devices are expensive!)

Development process:

- Understanding how the hardware works
(reverse engineering, documentation)
- Writing free software replacements

Help is needed, get involved!