Building Android From Source

cradle

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```
curl https://dl-ssl.google.com/dl/googlesource/git-repo/repo > ~/bin/repo
chmod a+x ~/bin/repo
repo init -u git://github.com/AOKP/platform_manifest.git -b jb-mr1
[...]
for AOSP:
repo init -u https://android.googlesource.com/platform/manifest -b master
[...]
repo sync
...
...
grab some coffee...
...
cigarette
...
one more...
...
allright tomorrow will be time enough
...
```

Grab the Kernel

- .repo/manifests/kernel_manifest.xml
- copy to .repo/local_manifests/foo.xml or write define your own..
- repo sync

Defines some nice functions for build

- mka - make (full threaded)
- breakfast - configure build
- lunch - similiar to breakfast but includes debug versions or builds for emulator
- brunch - breakfast && mka bacon
- much more...type "hmm" for help

build the ROM

Example Nexus 4 (mako)

- brunch
- choose device
- short: brunch aokp_mako-userdebug
- coffee and cigarette
- done - yeay

What is a ROM?

usually flashable zip including

- kernel
- boot.img – Native system boot image.
- ramdisk.img – Ramdisk rootfs.
- recovery.img – Recovery image.
- ramdisk-recovery.img – Ramdisk rootfs for Recovery.
- system.img – System data (/system directory)
- userdata.img – User data (/data directory)

Own Apps

- add to .repo/manifest.xml - repo sync
- git clone into packages/apps/ - mm (for build)
- android kitchen
  `git://github.com/dsixda/Android-Kitchen.git`