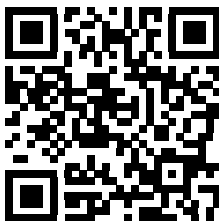


Yocto

eigene Embedded GNU/Linux Distro bauen

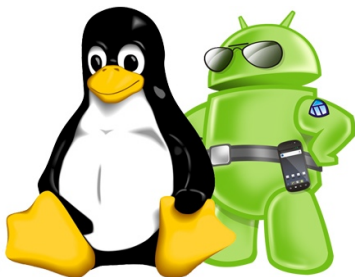
Urs Fässler; urs@bitzgi.ch

FSFE Fellowship Gruppe Zürich



www.bitzgi.ch/presentation/

8.5.2014



If you can't hack it, you don't own it





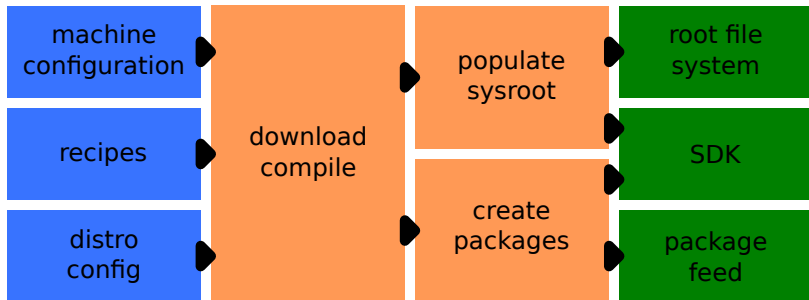
- Linux Foundation










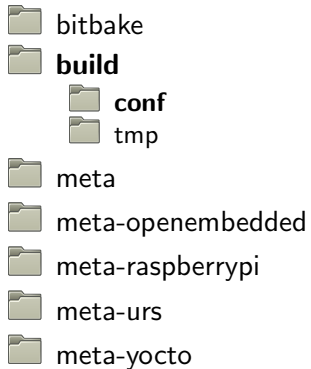
■ Linux Foundation

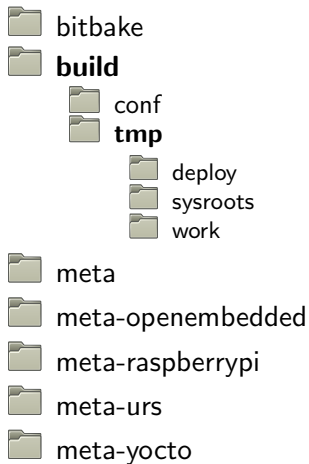
- AMD, LG Electronics, Renesas, Long Term Support Initiative (LTSI), Juniper Networks, O.S. Systems, Huawei, Mentor Graphics, Texas Instruments, Sakoman, Inc., OpenEmbedded eV, MontaVista Software, LSI Corporation, Intel Corporation, Freescale Semiconductor, Enea AB, Wind River Systems, Dell, Dynamic Devices, SDG Systems, Silica, GENIVI Alliance, Nefedia, Eukréa Electromatique, minnowboard.org, NetModule AG, Move Innovation, DENX Software Engineering, ChargeStorm AB, Qtechnology, KOAN, The Ångström Distribution, Sidebranch, Gumstix, Timesys, Tilera, Secret Lab Technologies, RidgeRun, NetLogic Microsystems, Panasonic, Mindspeed, Cavium Networks

Build Übersicht



-  bitbake
-  build
-  meta
-  meta-openembedded
-  meta-raspberrypi
-  meta-urs
-  meta-yocto







```
1 SUMMARY = "A commandline OMX player for the Raspberry Pi"
2 LICENSE = "GPLv2"
3
4 DEPENDS = "libpcre libav virtual/egl boost freetype dbus"
5 RDEPENDS_${PN} += "bash procps"
6
7 SRCREV = "7af21f596378e5efecceebdff9c4a298e2d06d98"
8 SRC_URI = "git://github.com/popcornmix/omxplayer.git;protocol
9           file://0001-Remove-Makefile.include-which-includes
10
11 COMPATIBLE_MACHINE = "raspberrypi"
12
13 inherit autotools
14
15 do_install() { ... }
16
17 FILES_${PN} = "${bindir}/omxplayer* \
18               ${libdir}/omxplayer/lib*${SOLIBS}
19 ...
```

- 1 Yocto von yoctoproject.org herunterladen

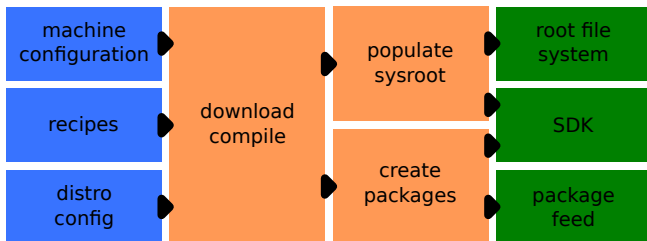
- 1 Yocto von yoctoproject.org herunterladen
- 2 `source oe-init-build-env`

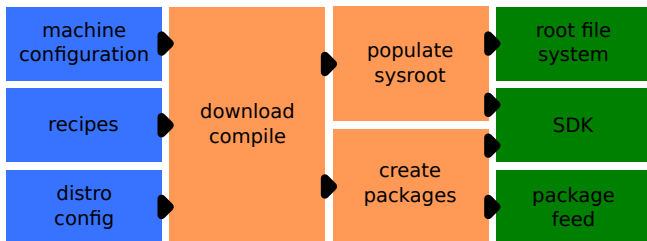
- 1 Yocto von yoctoproject.org herunterladen
- 2 `source oe-init-build-env`
- 3 herunterladen weiterer Layer (meta-raspberrypi)
- 4 Layer in `conf/bblayers.conf` eintragen

- 1 Yocto von yoctoproject.org herunterladen
- 2 `source oe-init-build-env`
- 3 herunterladen weiterer Layer (meta-raspberrypi)
- 4 Layer in `conf/bblayers.conf` eintragen
- 5 anpassen von `conf/local.conf` (`MACHINE="raspberrypi"`)

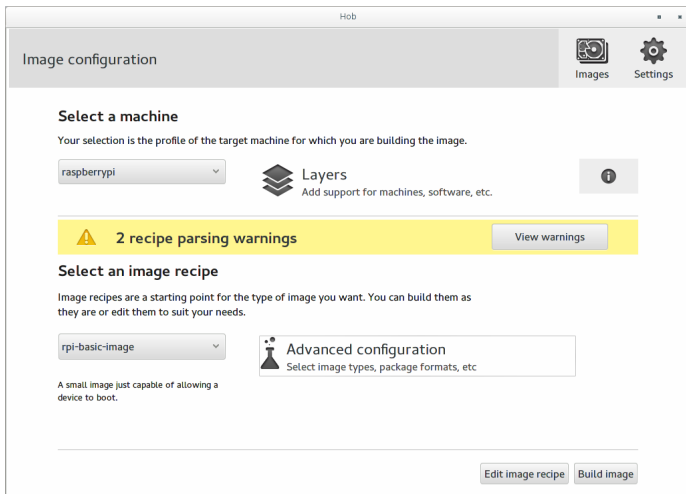
- 1 Yocto von yoctoproject.org herunterladen
- 2 `source oe-init-build-env`
- 3 herunterladen weiterer Layer (meta-raspberrypi)
- 4 Layer in `conf/bblayers.conf` eintragen
- 5 anpassen von `conf/local.conf` (`MACHINE="raspberrypi"`)
- 6 starte `bitbake rpi-basic-image`

- 1 Yocto von yoctoproject.org herunterladen
- 2 `source oe-init-build-env`
- 3 herunterladen weiterer Layer (meta-raspberrypi)
- 4 Layer in `conf/bblayers.conf` eintragen
- 5 anpassen von `conf/local.conf` (`MACHINE="raspberrypi"`)
- 6 starte `bitbake rpi-basic-image`
- 7 Kaffee trinken, Mittag essen, Wochenendausflug, ...

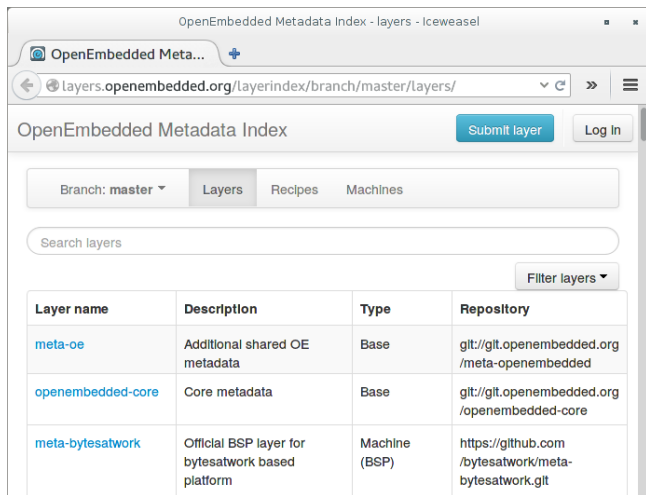




- `bitbake meta-toolchain-sdk` für Cross Compiler
- `bitbake <image> -c populate_sdk` für Cross Compiler mit Sysroot



■ Hob



OpenEmbedded Metadata Index - layers - Iceweasel

OpenEmbedded Meta... +

layers.openembedded.org/layerindex/branch/master/layers/

OpenEmbedded Metadata Index [Submit layer](#) [Log In](#)

Branch: master ▾ Layers Recipes Machines

Search layers

Filter layers ▾

Layer name	Description	Type	Repository
meta-oe	Additional shared OE metadata	Base	git://git.openembedded.org/meta-openembedded
openembedded-core	Core metadata	Base	git://git.openembedded.org/openembedded-core
meta-bytesatwork	Official BSP layer for bytesatwork based platform	Machine (BSP)	https://github.com/bytesatwork/meta-bytesatwork.git

- Hob
- layers.openembedded.org

- spezifische Embedded GNU/Linux Distro bauen
- SDK bauen

- spezifische Embedded GNU/Linux Distro bauen
- SDK bauen
- selbst um Updates kümmern