

e-ale

What is the Yocto Project?

- A Linux Foundation project that helps you build your own custom Linux distribution, from source to installable image
- A collection of tools to make building your own custom Linux distribution easier
- "yocto" is the smallest unit prefix in the SI system (10-24)

e-ale

What is Open Embedded?

- A build system, using the "bitbake" tool, to create a Linux distribution
- A long time ago, in a galaxy far far away, it was what came to be known as Open Embedded Classic
- A not for profit organization which aims to champion embedded Linux

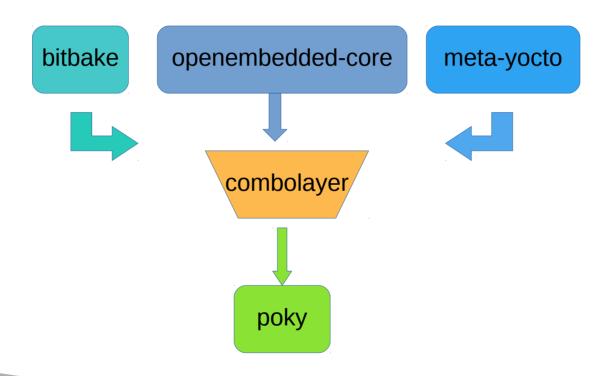
e-ale

What is poky?

- "poky" is the <u>reference</u> distribution used to make sure the Yocto Project is "all systems normal"
- A conveniently and legally different name for something that sounds the same as a chocolate dipped cookie stick popular in Japan
- Not an equine companion to a green clay-mation character from a popular children's Saturday morning show that sounds like it might be not so fast



What is poky?

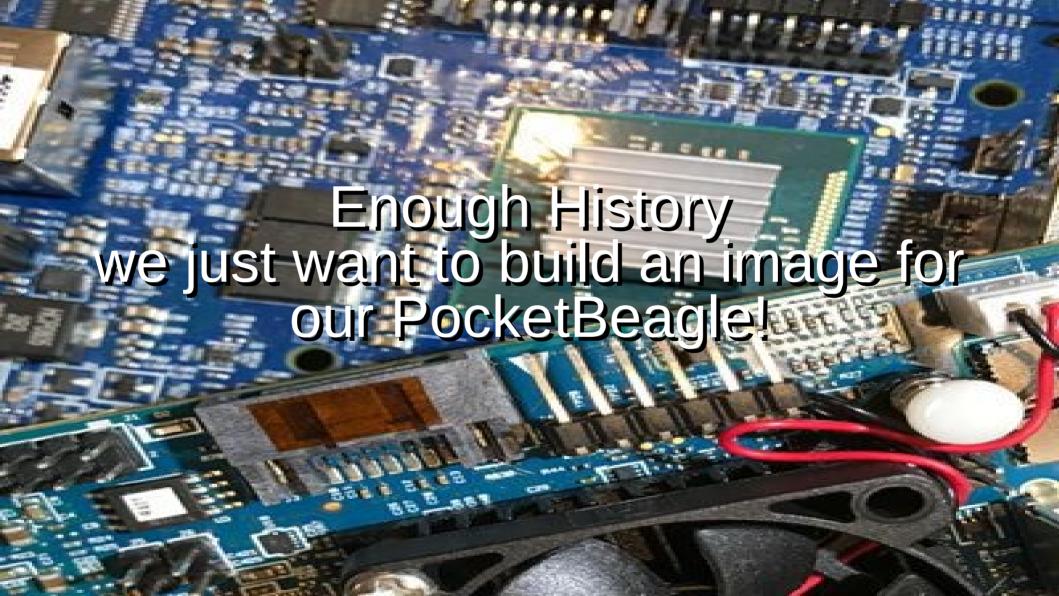




What is poky?

```
$ tree -L 1 poky
poky
         bitbake
        documentation
         LICENSE
        meta
       meta-poky
meta-selftest
meta-skeleton
meta-yocto-bsp
oe-init-build-env
README.hardware

README.LSB
README.poky
README.poky
scripts
```





What do we mean by "image"?

- /boot (and boot loader)
- kernel (and kernel modules)
- rootfs
 - /etc
 - /var
 - /usr



Cloning our tools and metadata

git clone bitbake

git clone openembedded-core



git clone poky

git clone meta-foo

Setting up our build environment

- Without any options
 - . ./poky/oe-init-build-env

```
MACHINE ??= "qemux86"
```

```
TOP_DIR = "./build"
```



