Modifying the Kernel

A brief how-to
This talk will not:

NOPE.
This talk will:
Your Environment:

Build Appliance

static/apple-logo.gif
Yocto
Quick EMUlator
Building the Kernel
// To Install

git

```shell
git clone git://git.yoctoproject.org/linux-yocto-3.14
```

The qemu you need (if not sure, `uname -m`)

make, gcc,
// TODO

make defconfig (options)
make

Boot the VM using your compiled kernel

qemu-system-x86_64 qemu-system-x86_64
  -nographic -kernel ./arch/x86_64/boot/bzImage
  -enable-kvm -net none -usb -localtime
  --no-reboot --append "root=/dev/vda rw
c  console=ttyS0 debug".
Demo Time
Making your changes
Make yo' changes
Add \texttt{$\text{Name}.o}$ to the appropriate Makefile
Add to appropriate config file (ie. \texttt{Kconfig.iosched})
Recompile and boot VM
Do that Demo
Damn, dat Demo
Creating a patch

```bash
git diff origin/master > mypatch.patch
```
Resources

Yocto Kernel download
Yocto project documentation
Qemu booting options
Questions

ANY QUESTIONS?
Thank you!