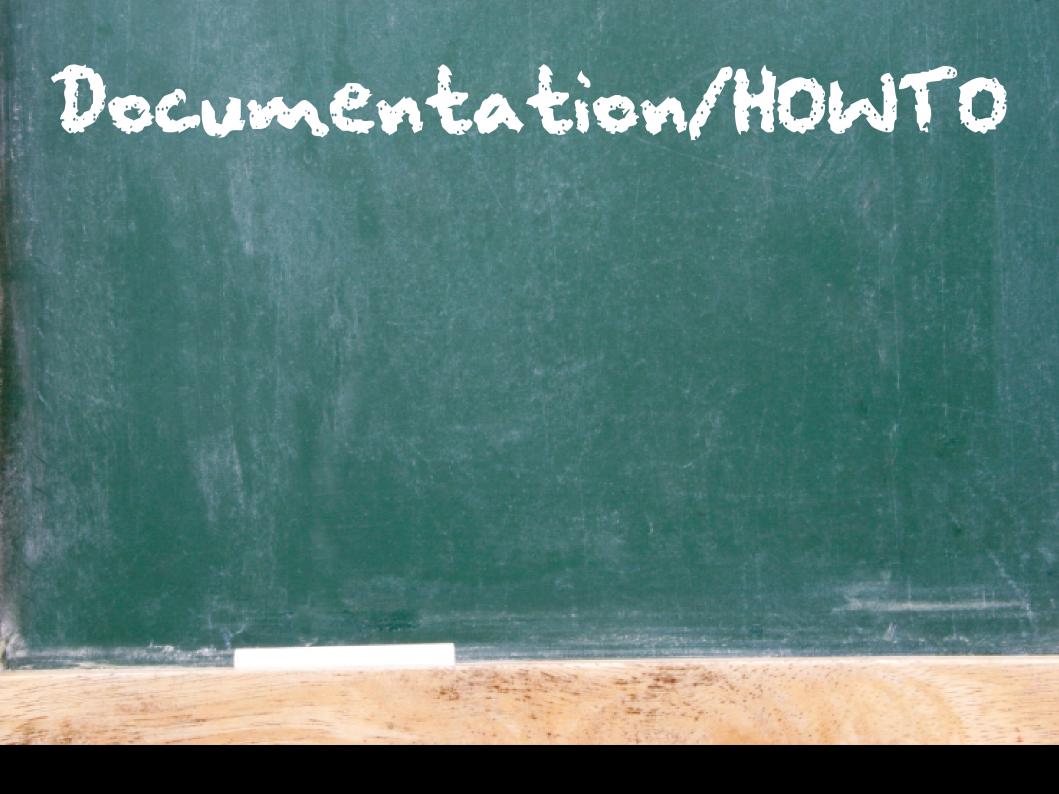
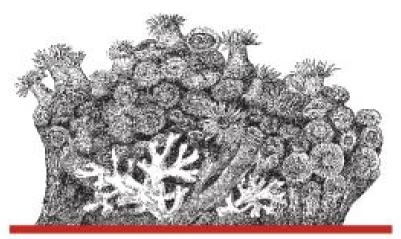
Write and Submit your first Linux Kernel Patch

Greg Kroah-Hartman
SUSE Labs / Novell

git://github.com/gregkh/kernel-tutorial.git



What are we not going to cover?



LINUX KERNEL

IN A NUTSHELL

A Desktop Quick Reference



Greg Kroab-Hartman

SECOND EDITION

Oresis Designation of the Property of the Prop

THE

PROGRAMMING LANGUAGE

> BRIAN W KERNIGHAN DENNIS M. RITCHIE

> > PRENTICE HALL SCIFTWARE SERIES

What we are going to cover

- git basics
- Linux kernel coding style
- Fixing a file
- Generating a patch
- Emailing the patch



git clone

git clone git://git.kernel.org/pub/scm/linux/kernel/git/torvalds/linux-2.6.git

git branch

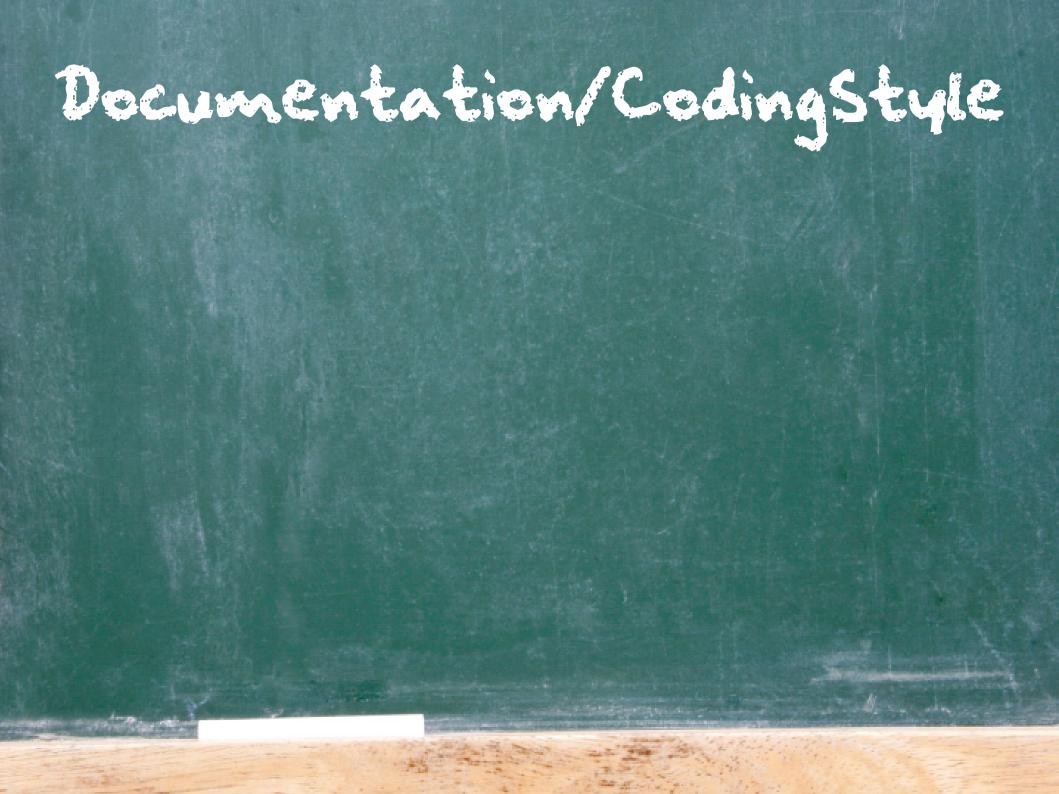
git branch tutorial
git checkout tutorial

Linux Kernel Coding Style

Why Care?

"It is not merely a matter of aesthetics that programs should be written in a particular style. Rather there is a psychological basis for writing programs in a conventional manner: programmers have strong expectations that other programmers will follow these discourse rules. If the rules are violated, then the utility afforded by the expectations that programmers have built up over time is effectively nullified."

Soloway & Ehrlich



Use tabs All tabs are 8 characters 80 character line limit

```
if (error != -ENODEV) {
    foo();
    bar();
}
```

```
if (error != -ENODEV) {
        foo();
        bar();
} else {
        report error();
        goto exit;
```

```
if (error != -ENODEV)
    foo();
else
    goto exit;
```

```
int function(int *baz)
{
    do_something(baz);
    return 0;
}
```

scripts/checkpatch.pl

```
USB: otg: Fix bug on remove path without transceiver
In the case where a gadget driver is removed while no
transceiver was found at probe time, a bug in
otg_put_transceiver() will trigger.
Signed-off-by: Robert Jarzmik <robert.jarzmik@free.fr>
Signed-off-by: Greg Kroah-Hartman <gregkh@suse.de>
--- a/drivers/usb/otg/otg.c
+++ b/drivers/usb/otg/otg.c
@@ -43,7 +43,8 @@ EXPORT_SYMBOL(otg_get_transceiver);
void otg_put_transceiver(struct otg_transceiver *x)
       put_device(x->dev);
       if(x)
              put_device(x->dev);
```

Developer's Certificate of Origin

- (a) I created this change; or
- (b) Based this on a previous work with a compatible license; or
- (c) Provided to me by (a), (b), or (c) and not modified

(d) This contribution is public.

git diff

git commit

git show

git format-patch

git send-email

scripts/get_maintainer.pl

Checklist

- Kernel builds with patch applied
- Correct "From:" address
- Concise "Subject:"
- Explain the patch
- Signed-off-by

