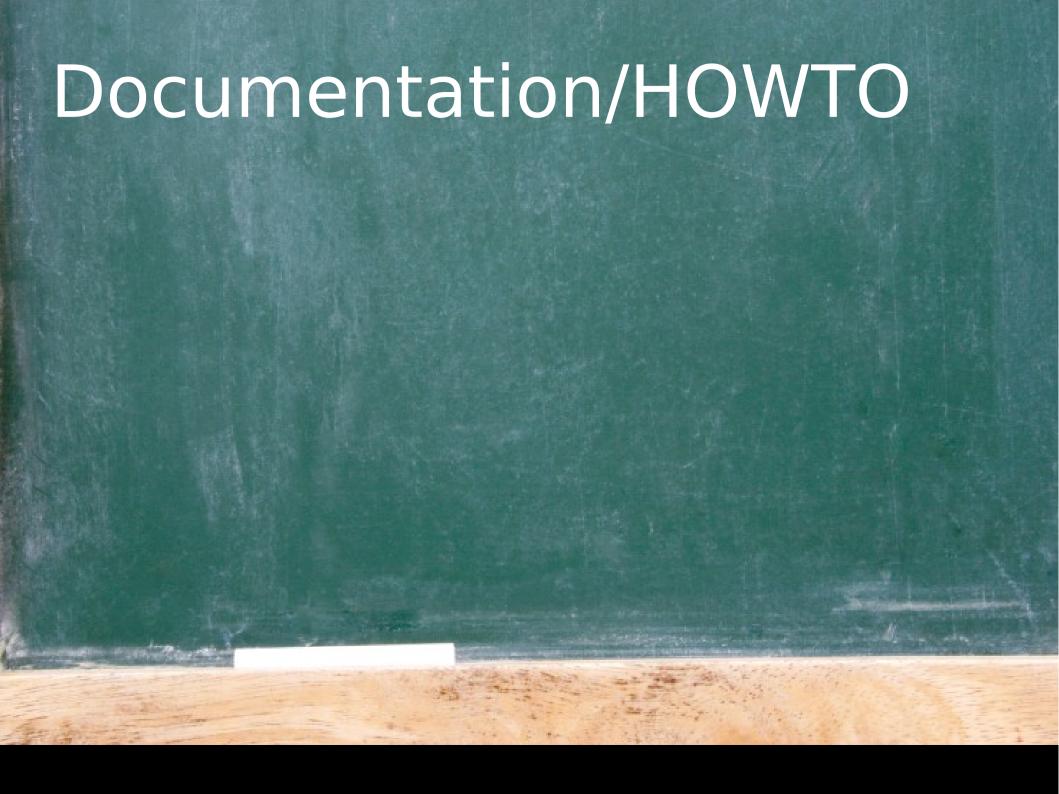
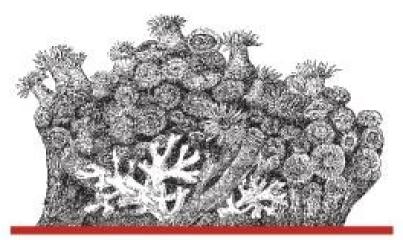
Write and Submit your first Linux Kernel Patch

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What are we not going to cover?



LINUX KERNEL

IN A NUTSHELL

A Desktop Quick Reference



Greg Kroab-Hartman

SECOND EDITION

Orapidos Or Anglopos

THE

PROGRAMMING LANGUAGE

> BRIAN W KERNIGHAN DENNIS M. RITCHIE

> > PITENTICIO HALL SCITTWARE 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

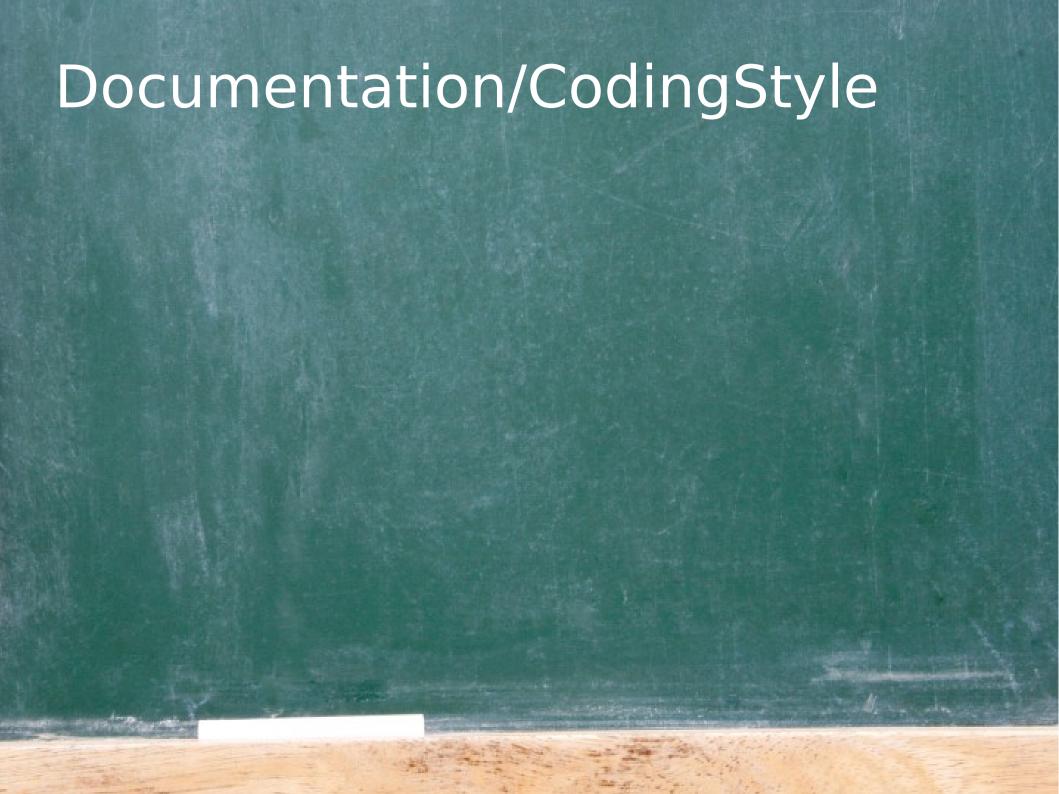
git branch tutorial git checkout tutorial

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

```
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>
Acked-by: David Brownell <dbrownell@users.sourceforge.net>
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);
```

USB: otg: Fix bug on remove path without transceiver

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

kernelnewbies.org



