

# Write and Submit your first Linux Kernel Patch

Greg Kroah-Hartman

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[github.com/gregkh/kernel-tutorial.git](https://github.com/gregkh/kernel-tutorial.git)

Documentation/HOWTO

Documentation/  
development\_process

# Working with linux-next

```
$ git remote add linux-next \  
    git://git.kernel.org/pub/scm/linux/kernel/git/next/linux-next.git
```

```
$ git fetch linux-next
```

```
$ git fetch --tags linux-next
```

```
... # later on
```

```
$ git remote update
```

# 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

# Documentation/CodingStyle

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>

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);

}



# 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

# kernelnewbies.org





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