

# Linux Notes

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The following notes are things I have come across whilst using Linux on a day to day basis. I suspect other people will have the same issues and that they will find my solutions via Google.

## 1. Installing firmware on Fedora Core 3

Firmware is the software used on hardware components. Often you will need to get some firmware files so that the Linux kernel can figure out the capabilities of a piece of hardware. This is especially true for USB devices such as TV cards. Different distro have different location for hot pluggable firmware. This is a problem as many howto tutorials don't mention different requirements for different distros. Firmware files on FC3 must be placed in the following directory.

```
/lib/firmware
```

## 2. Converting a PDF to a Powerpoint Presentation

A PDF reader is not always available at a conference presentation, so it makes sense to have a powerpoint version of PDF based slides just in case. The following commands create image versions of each slide in a presentation, which can then be inserted into a powerpoint presentation. The quality is a little less sharp than the originals but good enough for presentation.

```
convert slides.pdf image_%04d.gif #convert the pdf to gifs
#you will probably want to rotate the outputted images
for i in image_*.gif; do
    convert -rotate 90 "$i" "rotated$i"
done
```