

Command line PDF and image tools

- Pdftopdf – Grep within a pdf
 - pdftopdf 'image' TheseSlides.pdf

```
Command line PDF and image  
Pdimages extract images embedded in a pdf  
Pdfimages extract images embedded in a pdf  
Image Magick image manipulation, format
```

- Pdftk – combine / split pdfs together
 - See manpage (man pdftk) for examples:

```
Remove 'page 13' from in1.pdf to create out1.pdf  
pdftk in.pdf cat 1-12 14-end output out1.pdf
```

```
Join in1.pdf and in2.pdf into a new PDF, out1.pdf  
pdftk in1.pdf in2.pdf cat output out1.pdf
```

Collate scanned pages

```
pdftk A=even.pdf B=odd.pdf shuffle A B output collated.pdf  
or if odd.pdf is in reverse order:  
pdftk A=even.pdf B=odd.pdf shuffle A Bend-1 output collated.pdf
```

Command line PDF and image tools

- Pdftimages – extract images embedded in a pdf

- `pdftimages TheseSlides.pdf /tmp/img`

```
ls /tmp/img*  
/tmp/img-000.ppm /tmp/img-001.ppm /tmp/img-002.ppm /tmp/img-003.ppm
```

- (Useful for borrowing plots / photos from other peoples slides)
- Pdftcrop – shrink bounding box to remove whitespace around edge
- `pdftcrop input.pdf`

```
ls input*.pdf  
input-crop.pdf input.pdf
```

- Image Magick:

- image manipulation, format conversion, produce animations (gif)
 - `convert file.png file.jpg`
 - `convert -loop 0 -delay 30 file{1..10}.png animation.gif`

An Image!!!!



```
1 ben@bens-laptop$ ls -1 *pdf
MySlides.pdf
1 ben@bens-laptop$ pdftk MySlides.pdf cat 3 output tmp.pdf
1 ben@bens-laptop$ ls -1 *pdf
MySlides.pdf
tmp.pdf
1 ben@bens-laptop$ pdfimages tmp.pdf img
1 ben@bens-laptop$ ls -1 *pdf img*
img-000.ppm
img-001.ppm
img-002.ppm
MySlides.pdf
tmp.pdf
```