

# TODO

## General

- Start tracking some of the samples about how they behave in various PDF viewers: Adobe Reader, Acrobat, Sumatra, Preview.app, Ghostscript, MuPDF, Evince, XPDF, Chrome's internal PDF viewer, PDF.js, Windows 10 builtin Reader,...
- Maybe write some simple Python scripts which auto-generate the **xref** and the **trailer** given a file that already has PDF header and body of objects?
- Other helper tools for creating hand-written PDFs: Python script which encode/decode arbitrary blobs of data (/ASCIIStrDecode, /ASCIIStrEncode, /LZWDecode, /DCTDecode, /FlateDecode, /RunLengthDecode, /JBIG2Decode, /CCITTFaxDecode, /JPXDecode, /Crypt). Not all at once, though...

## File Wishlist

- TODO: (almost) empty template(s) to kickstart hand-making PDFs
  - Text (1-page, 2-page, 4-page)
  - Images (1-page, 2-page, 4-page)
  - Vector drawings (1-page, 2-page, 4-page)
- TODO: OCG / Layers: visible - invisible - printable
- TODO: Watermarks (efficient)
- TODO: text hidden by other object
- TODO: cropped object (LaTeX illustrations)
- TODO: JavaScript in a PDF
- TODO: internal links in PDF
- TODO: fillable forms in a PDF
- TODO: bookmarks in a PDF
- TODO: annotations in a PDF
- TODO: some sort of challenge/riddle for TROOPERS in a PDF ?
- TODO: redaction (good + bad)

- DONE: incrementally updated PDF file  
SEE: 114\_incrementally-updated.pdf
- DONE: JPEG image in a PDF  
SEE: 107\_perspectives-by-banksy.pdf
- DONE: “text” by drawing outlines  
SEE: 102\_A-vectorized.pdf
- DONE: “text” with font NOT embedded  
SEE: 104\_fonts-not-embedded.pdf
- DONE: “text” with font embedded  
SEE: 106\_hello-troopers.pdf  
SEE: 108\_text-rendering-modes.pdf  
SEE: 112\_play-with-tounicodetable.pdf  
SEE: 112\_stegano-with-tounicodetable.pdf
- TODO: CTM demo + playground  
SEE: 105\_transformation-matrix.pdf  
SEE: 111\_current-transformation-matrix-ctm.pdf