

# ctx multipage, CMYK PDF

This document is laid out with a subset of the ctx protocol. The PDF backend doesn't support wordwrap yet so this is currently a little awkwardly laid out. It's a drawing protocol so for instance **bolding text** requires knowing what the current font is. It also seems like width computation is not matching text progress.

I will try to make text layout match using the core fonts since having this working means at least some PDFs end up nice and compact, for other complex layout/ttf fonts I will initially value correctness and perhaps do individual glyphs or text to path.

Implemented bits:

- CMYK, RGB, GRAY
- move/line/bezier/quadratics
- line width, join, caps
- placed text string using PDF base fonts
- stroke, fill
- opacity

In progress bits:

- arcs

Missing bits:

- dashes
- gradients
- textures
- hyperlinks
- non-roman text
- embedded fonts
- text layout
- icc profiles

Opacity



# Fonts

Currently only the 14 core PDF fonts are supported  
This corresponds to the base core fonts shipped with ctx  
this should be sufficient to work out agreement of  
spacing between ctx and PDF

Times

*Times Italic finale*

**Times Bold**

*Times Bold Italic*

Helvetica

**Helvetica Bold**

*Helvetica Italic*

Courier

**Courier Bold**

*Helvetica Bold Italic*

*Courier Italic*

Courier Bold Italic

α

✱

Ctx should be doing substitution for fi fl ff ft and such

The quick brown fox jumps over the lazy dog.

*The quick brown fox jumps over the lazy dog.*

# Colors

gray 0.1

gray 0.2

gray 0.5

rgb 1 0 0

rgb 0 1 0

rgb 0 0 1

rgb 0 0 0

cmyk 1 0 0 0

cmyk 0 1 0 0

cmyk 0 0 1 0

cmyk 0 0 0 1

cmyk 1 1 1 1

# Colors

graya 0.1 0.5

graya 0.2 0.5

graya 0.5 0.5

rgba 1 0 0 0.5

rgba 0 1 0 0.5

rgba 0 0 1 0.5

rgba 0 0 0 0.5

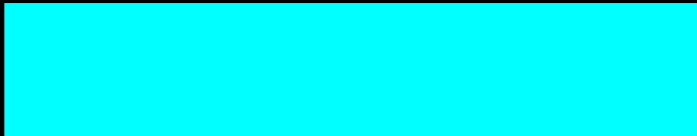
cmyka 1 0 0 0 0.5

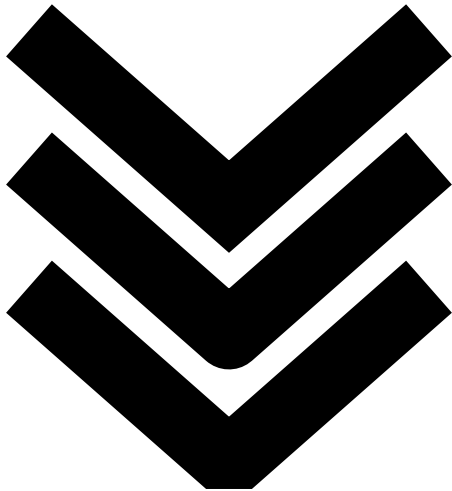
cmyka 0 1 0 0 0.5

cmyka 0 0 1 0 0.5

cmyka 0 0 0 1 0.5

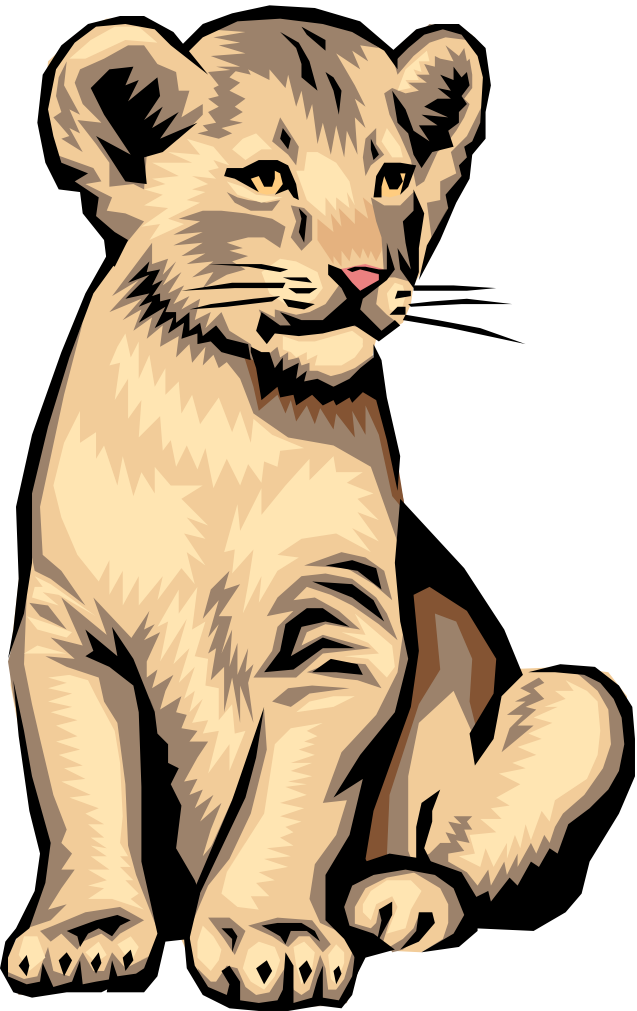
cmyka 1 1 1 1 0.5













# bad renders

the following pages contains bad renders.  
mostly due to problems in PDF backend, but might be in ctx itself.



black

cyan

magenta

yellow

cmyk overprint

red

green

blue

red 0.5 alpha

