

LibreOffice: Towards to DTP

- Typography: improved layout with Graphite font technology and SVG vector graphics
- Printing: PDF output with cropping and monochrome/CMYK colors
- DTP: graphical user interface for typography level character and paragraph formatting
- Standardization: font features in ODF
- Other developments: ODF table styles, TOC with long lines, right aligned footnote numbering, etc.

Typography

- Graphite font technology: ligatures, old figures, small capitals, combining diacritics, language variants, etc.
- Linux Biolinum G and Libertine G: dozens of new font features for LibreOffice
 - <http://www.numbertext.org/linux>
- Scalable Vector Graphics (SVG):
 - Freely scalable, high quality image format
 - Open standard

Printing

- Cropped and monochrome/CMYK PDF: industrial requirements
- Recent solution: post-processing of PDF output, eg. cropping:
 - `gs -q -dNOPAUSE -dBATCH -sDEVICE=pdfwrite -sOutputFile=output.pdf -c .setpdfwrite -f doc.pdf pdfmark.txt`
 - Content of pdfmark.txt:
% cropping box coordinates in pt (x1 y1 x2 y2), here 5 mm (A4)
[/CropBox [14.17 14.17 581.1 827.72] /PAGES pdfmark
- Color conversion
 - `gs -q -dNOPAUSE -dBATCH -sDEVICE=pdfwrite -sColorConversionStrategy=CMYK -sOutputFile=doc_CMYK.pdf -dProcessColorModel=/DeviceCMYK -dCompatibilityLevel=1.4 doc.pdf`
 - `gs -q -dNOPAUSE -dBATCH -sDEVICE=pdfwrite -sColorConversionStrategy=Gray -sOutputFile=doc_gray.pdf -dProcessColorModel=/DeviceGray -dCompatibilityLevel=1.4 doc.pdf`

DTP GUI

- Recent solutions:
 - **Graphite extension** by **Keith Stribley** (1976–†2011)
 - **Typography toolbar** for Linux Biolinum & Libertine G
- **Typography panel:**
 - Font features (Graphite, future OpenType)
 - Paragraph formatting: fast manual correction of justification and hyphenation by microtypographic features of LibreOffice

Standardization

- Recent usage in OpenOffice.org/LibreOffice:
 - Extended font names, eg. Linux Libertine G with small caps, old figures and proportional numbers:
Linux Libertine G:smcp=1&onum=1&pnum=1
 - Use font alternatives for better ODF compatibility:
Linux Libertine G:onum=1;Linux Libertine G
- **Proposal for adding Font Feature support to ODF**
by Keith Stribley & Martin Hosken

Other improvements for DTP

- Table styles
 - ODF feature, missing in LibreOffice
 - “Huge effort” to implement (OOo Issue 11121)
 - Temporary solution: table style extension, eg. modify all tables by one of the autoformat styles:
for i = 0 to ThisComponent.TextTables.Count
ThisComponent.TextTables(i).autoFormat("Blue")
next i
- Vertical alignment
 - OOo Issue 20386, 79877

Other missing features

- Right aligned footnote numbering (recent solution: feature “align” in Linux Libertine G)
- Separated columns of multiline titles and page numbers in table of contents (MS Office: hidden feature by tabulator positions exceeding paragraph width)
- Conditional automatic justification of the last lines of paragraphs.
- Kerning of the automatic hyphen mark