

Multitoner

v 0.5.0

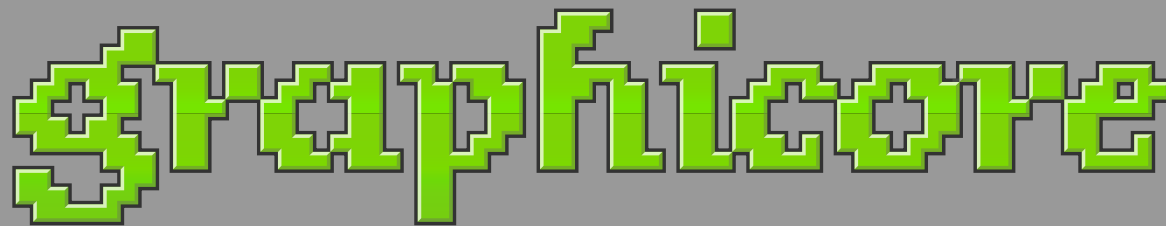
<https://github.com/graphicore/multitoner>

I:

Lasse Fister

web application developer

graphic designer, typographer

The word 'graphicore' is rendered in a vibrant green, pixelated font. Each letter is composed of small squares, giving it a retro, digital appearance. A thin black outline surrounds the green letters, making them stand out against the grey background.

<http://graphicore.de>

We:

Annette Karg & Lasse Fister

Silber & Blei

JB

<https://silber-und-blei.com>

Mission Statement:

We make valuable
[photography] Books
using exclusively FLOSS.



Research:

black-and-white photography book



We need Multitone:

What does it do?

What's it good for?

“Multitone color systems use a single-component image to specify multiple color components. In a duotone, for example, a single-component image can be used to specify both the black component and a spot color component. [...]”

– PostScript Language Reference

Image Workflow:

Source camera RAW or scanned



Darktable, etc.—RAW processing



Gimp—image-retouching



???—multitone magic



ConTeXt—layout, typesetting



Result: PDF for the print shop

**There was no FLOSS to create
multitone images.**

But we are on a mission!

Turns out EPS can represent this.

(Thanks for the hint, Photoshop.)

Preparations:

learn (some) PostScript

enhance python-ghostscript

Made with Love and:

- Python 2.7
- Gtk+ 3 via PyGObject
- Cairo via Pycairo
- Ghostscript
via python-ghostscript
- SciPy and NumPy

Live Demo

What's missing?

color management for previews

Ghostscript bug is blocking :-(
(option -sDeviceNProfile)

Adopt Color Management:

Interfaces

Data Structure

...

Color Profile Sourcing:

Help is appreciated!

Do you know an interested and
capable print shop?

Go Printing!

Version 1.0

from __future__ import:

- color profile library
- better previews *without* ICC-Profile
- automatic best fit curves
- “component” based separations
- automatic best separations
- high-fidelity color *e.g. Hexachrome*

Contribute:

- support other Operating Systems
- packaging
- write documentation
- start a Libre Printing Project
- code, of course

Thank You

<https://github.com/graphicore/multitoner>

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