



Printing Color Management

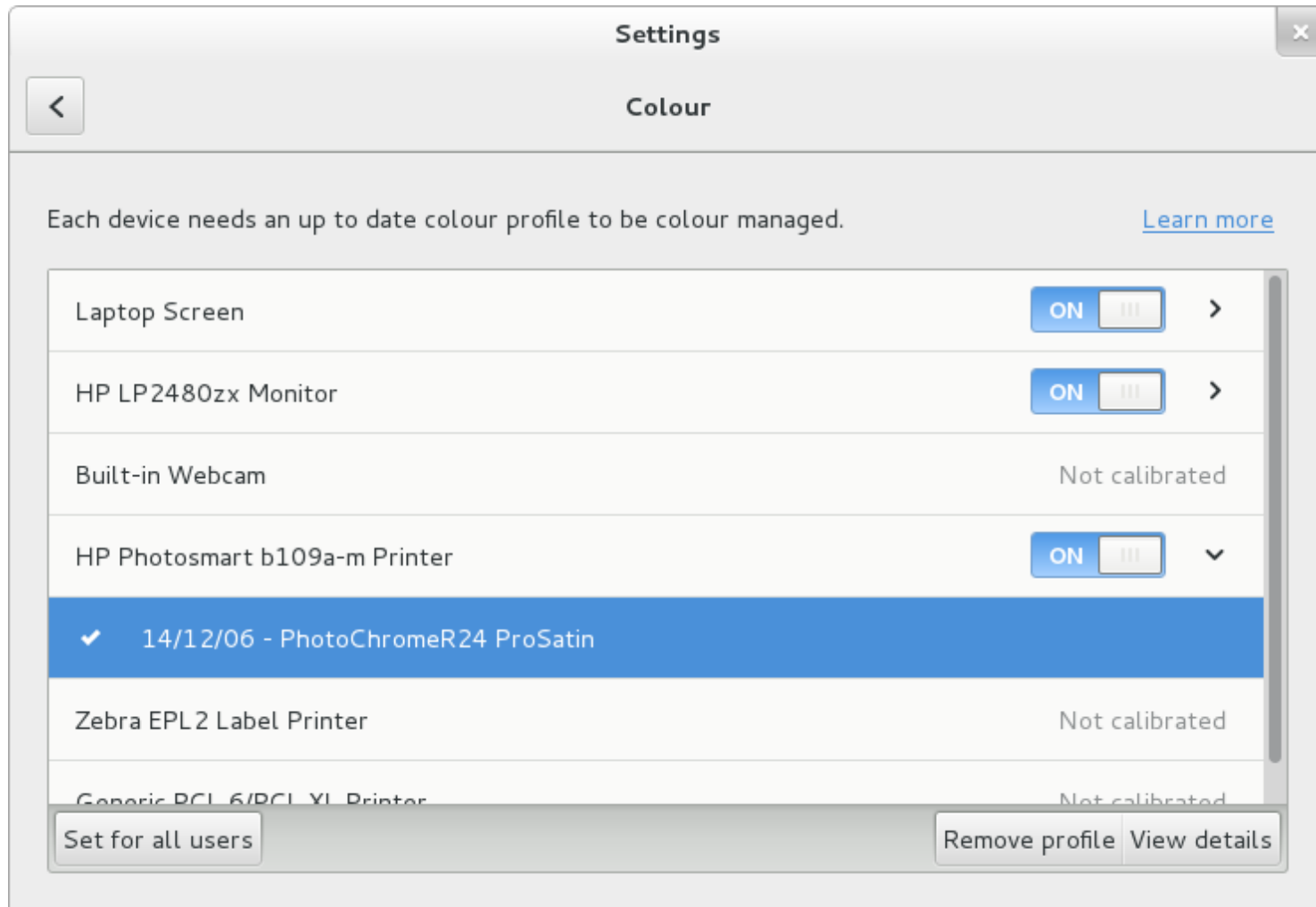
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15th May 2013

First, caveat emptor

- I'm only going to be talking about:
 - colord integration in Linux
 - My 40,000ft view on how things should work
 - It's okay to disagree with me, *cough*, libCmpx
- Not all of this stuff is 100% working or well tested



Introducing colord on the desktop...



Priority for a profile in the printing system



OutputIntent

User
document
override

colord

User/admin
supplied
defaults

PPD

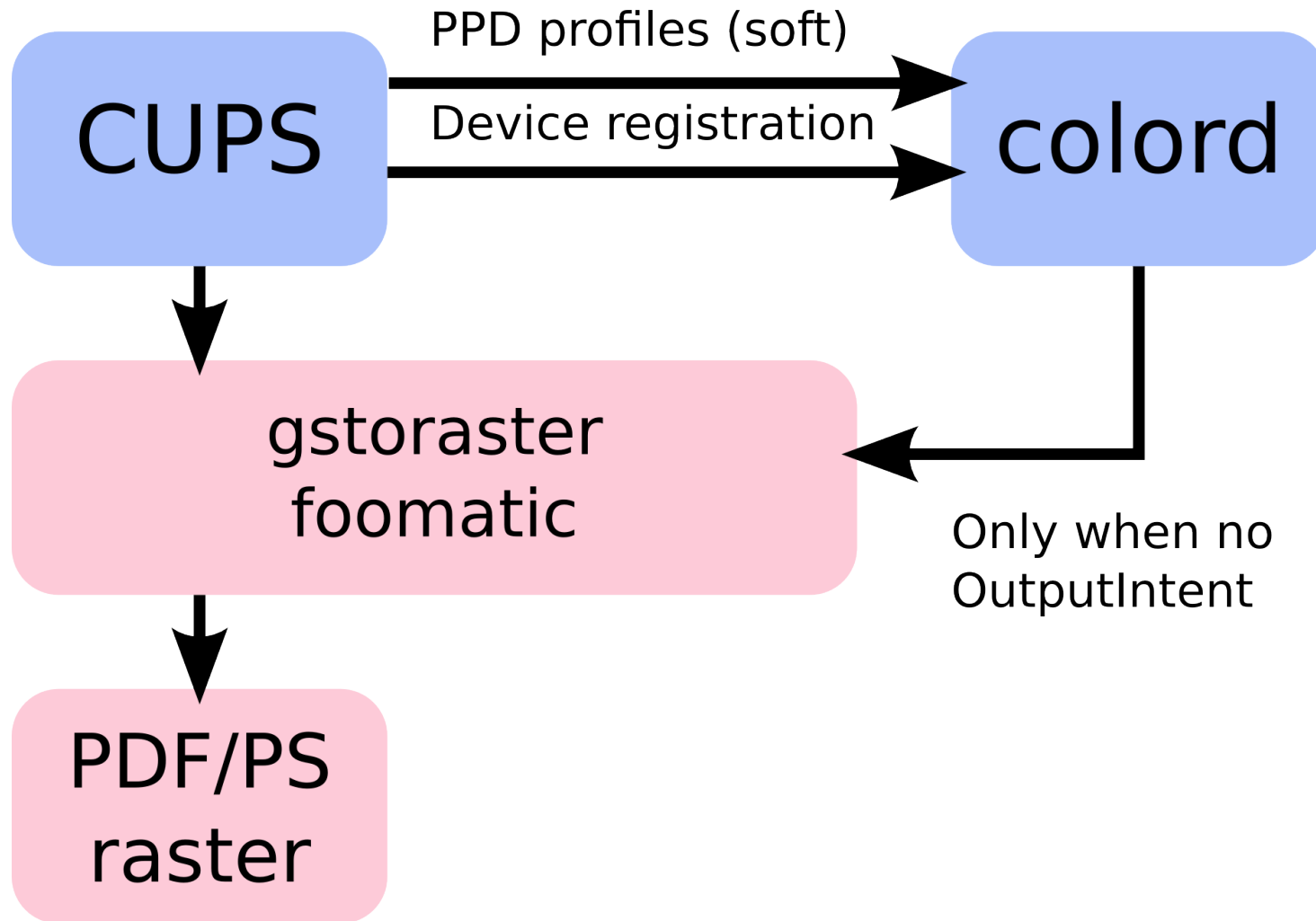
Vendor
supplied
defaults

Ghostscript

gstoraster
foomatic

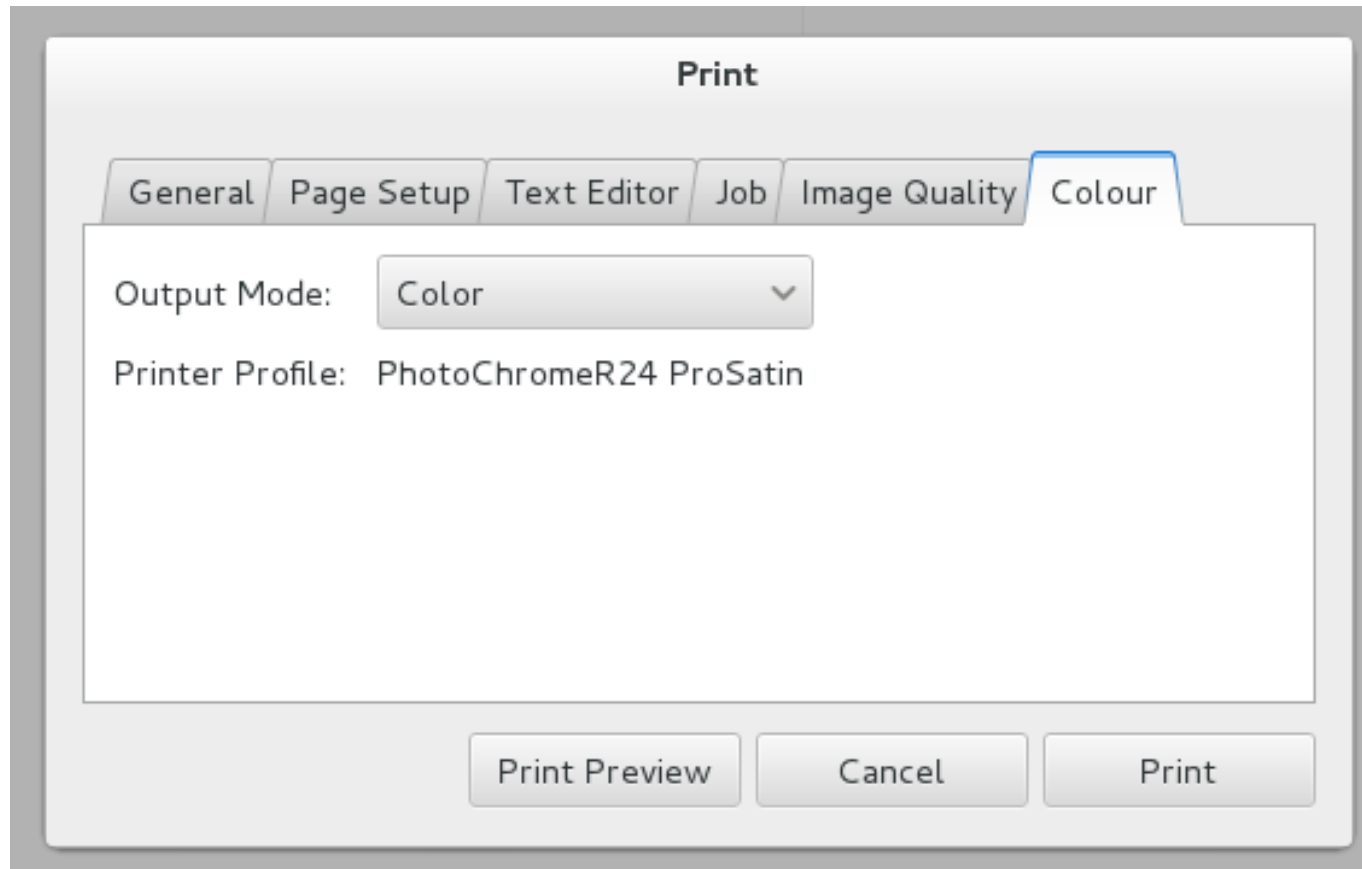


Implementation of colord override



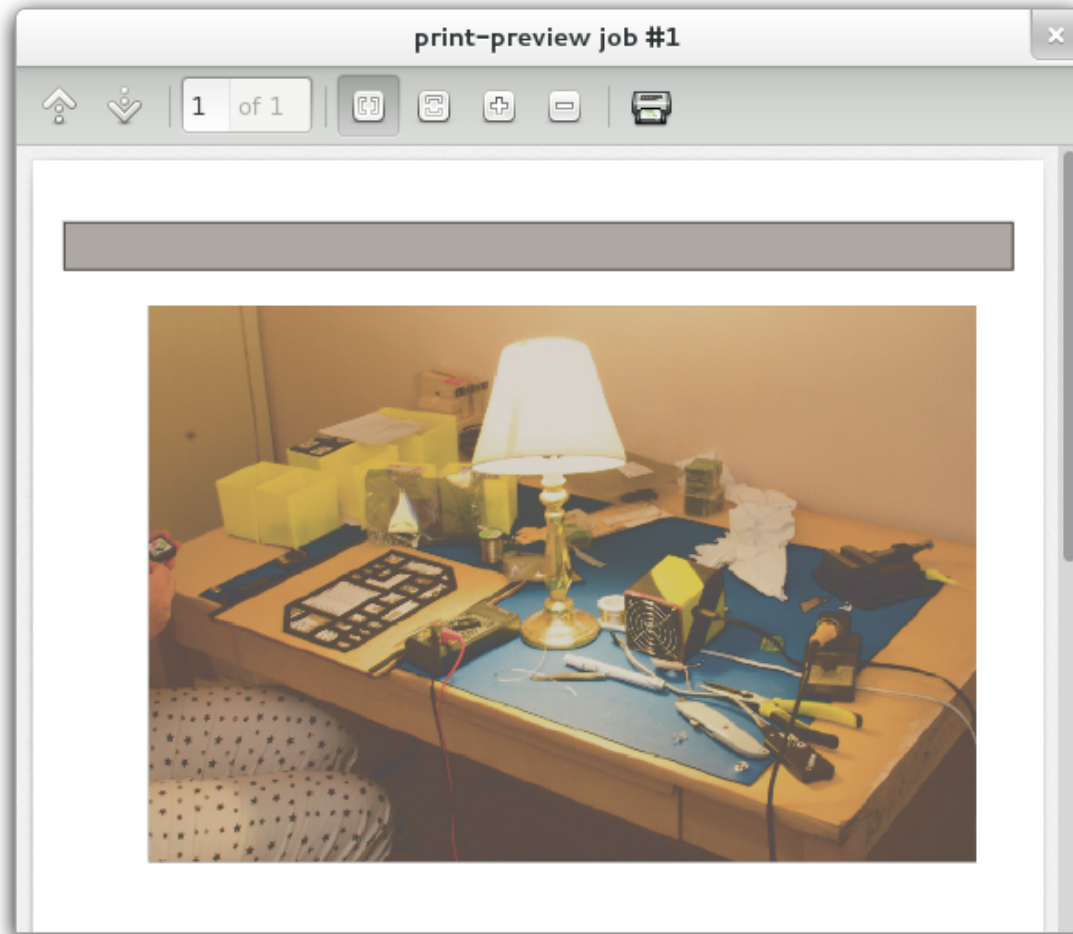
Gtk+ Print Dialog

- Deliberately no way to set OutputIntent

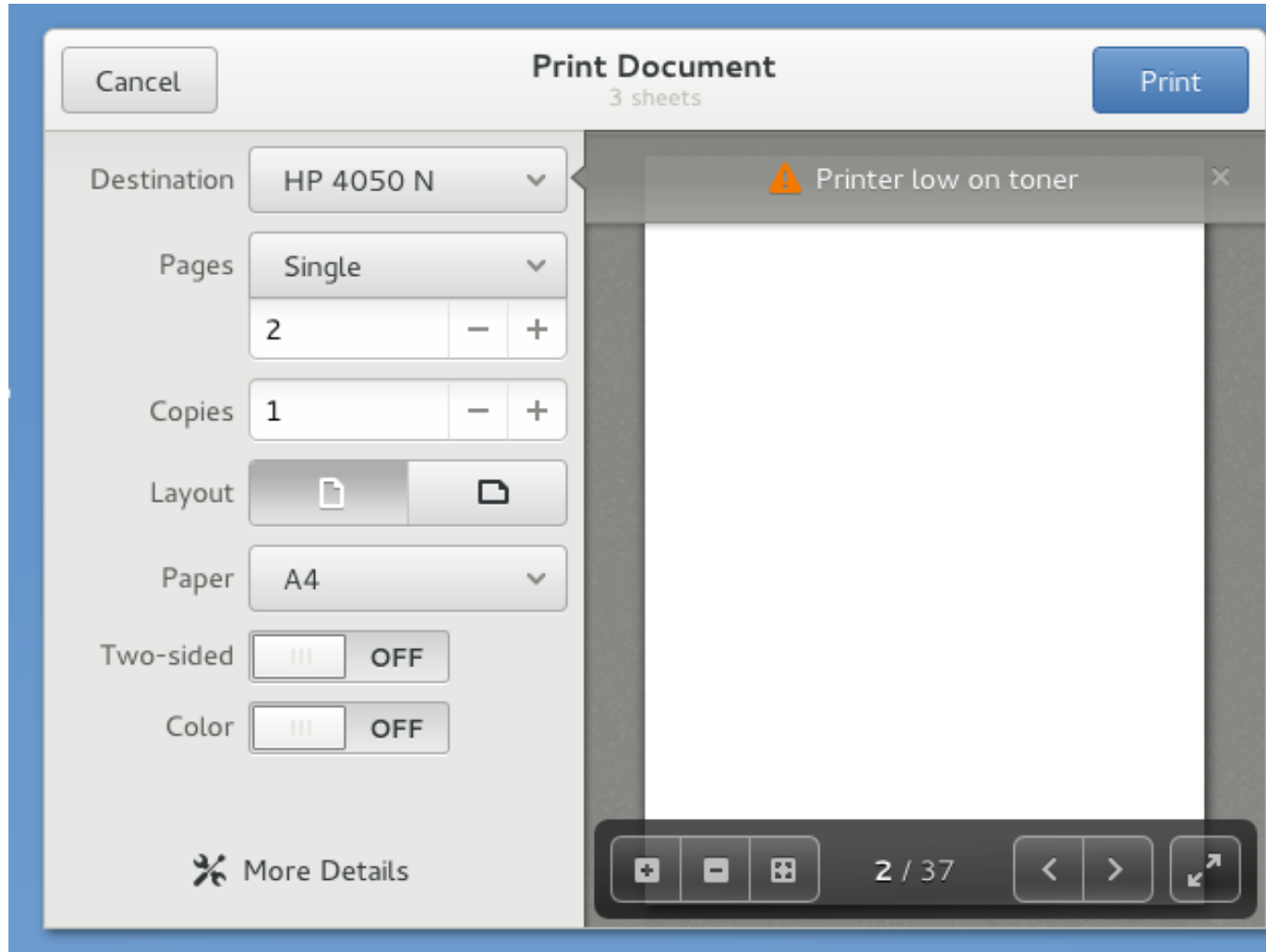


Print Preview as Poor-mans Softproofing

- Prototyped at ColorManagement Hackfest 2012



Gtk+ Print Dialog Future



Device to Profile ICC Metadata

- **MAPPING_format**
 - The format used for matching, e.g.
`ColorModel.OutputMode.OutputResolution`
- **MAPPING_qualifier**
 - The qualifiers the profile should adopt by default, e.g.
`RGB.Plain.300dpi`
- **MAPPING_device_id**
 - The device this profile should be paired with, e.g.
`cups-Photosmart-B109a-m`



Call to action

What needs doing:

- Test and implement the OutputIntent functionality
 - Adding code where required to Ghostscript
- Gtk+ print dialog work needs to be completed
 - Also links in with Wayland and GPU FSCM
- Make easier to generate ICC profiles for printers
 - Depends on ink / paper / printer / printer-driver

