



# Color Management

*The State of the Affair  
is  
Good, Bad, & Ugly*

Libre Graphics Meeting  
April 2015

Chris Murphy  
Color Remedies™  
Denver + NYC



# Standards Work

- ISO/TC 42: Photographic imaging
- ISO/TC 130: Graphic technology
- CIE: International Commission on Illumination
- ANSI->CGATS
- IFRA, FOGRA, IdeaAlliance

# Black Point Compensation

- ISO 18619 Image technology color management – Black point compensation
- ICC spec: Media-relative colorimetric intent only scales the white point, leaving black point scaling up to the Perceptual intent.
- Despite standardization it brings up numerous (old) questions, such as whether Media-relative colorimetric plus black point compensation will effectively become the most preferred rendering and thus ought to be the actual default.

# ICC news

- ICC Labs within the ICC is working on new ways of open communication.
- A new ICC V4 sRGB profile completed beta testing and is production ready. This is a (static) appearance matching profile mapping from sRGB to the ICC V4 Perceptual Reference Medium Gamut.
- Better renderings, especially when printing very colorful images.
- Problem? Where are the ICC V4 output profiles that render from PRMG to printer space? -crickets-

# Microsoft Windows

- ICM (Image Color Management)
- Bugs
- Not enabled by default



# OS X

- ColorSync
- Bugs
- Cannot be entirely disabled

# Linux distros

- Lcms, ArgyllCMS, colord, Oyranos
- Bugs
- Some parts are enabled by default, for example in GhostScript in the print pipeline, but not in others and are instead application specific.

# Common Themes

- Bugs
- Basic RGB and CMYK conversions do work correctly
- Rendering intent terminology is available and used the same everywhere.



# OBA

- What do laundry detergent, toothpaste, and printer paper all have in common?
- The elephant in the room is about to sneeze, and thus chaos is imminent.

# OpenHardware

- ColorHug 2's are shipping!
- ColorHUG ALS
- <https://blogs.gnome.org/hughsie/2015/03/17/introducing-colorhug-als/>

# 2015: The International Year of Light

- United Nations declaration
- CIE has planned Global Open Lab Days around the world May 9 to May 25.
- Features lighting science & technology, optical radiation, astronomy, and various advances in lighting and why it matters in our lives.
- IS&T “May be a first in the history of the world, a focused time period to explore a chosen science in collaboration across the globe.”
- [www.cie.co.at/index.php/IYL+2015](http://www.cie.co.at/index.php/IYL+2015)

# LGM 2015 Color Sessions

Tomorrow 10:00: *End to End Workflow*

“Does it work? How should it work? What are the steps?”

Tomorrow 12:00: *What about the color?* Birds of a feather.

A large green circular graphic with a radial gradient, transitioning from a lighter green in the center to a darker green at the edge, located in the top-left corner of the slide.

# Add this guy to your bug reports

Chris Murphy

[chris@colorremedies.com](mailto:chris@colorremedies.com)

A green circular graphic with a radial gradient, similar to the one in the top-left, located in the bottom-right corner of the slide.