

Autodesk®

Lab Night IBC



Colour management
a black art in need of demystification

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Trends of the industry

- increasing number of image sources with different characteristics and colour spaces (film, video, linear CG, graphics...).
- general shift towards higher bitdepth for film post-production, slowly extending to commercial post.
- increasing need for exchange of digital data between facilities yielding recurrent display problems: “what LUT should I use to look at this image?”

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Need for a robust colour management scheme offering predictable conversion paths, consistent image display, and user-selectable colour referentials.

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Gaps in our solutions

- no “out of the box” tools to display film images properly
- no tools to achieve colour accurate conversions between video and film
- no tools to achieve colour accurate conversions between graphics and film
- no end to end colour management solution across our systems

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Taking a phased approach

- Autodesk announces collaboration with ARRI to provide a first set of tools for display and conversion of film/HD material across our systems products.

ARRI 

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A first step in the right direction

- Use of ARRI technology for film measurements, delivering colour space independent spectral data.
- film display emulation supporting the four most commonly used print stocks :
 - ▶ Kodak 2383 & 2393
 - ▶ Fuji 3513 & 3510

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A first step in the right direction

- support for multiple types of display: CRT, DLP, LCD, HDbroadcast...
- gammut warning overlay on display
- colour accurate gammut mapping conversion Look Up Tables
 - ▶ from HD to film
 - ▶ from sRGB graphics to film

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The tools will be made available in future releases of all systems products, and will deliver consistent results across applications for processing and display.



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Autodesk will pursue colour management efforts to offer a flexible multi-purpose colour engine in its creative applications: Autodesk Colour



Display
DLP, CRT, LCD...

Display profile

Input
film, video,
graphics,
CG...

IN profile



OUT profile

Output
film, DCI,
video, web...

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Building a consistent creative vision



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THANK YOU

