

http://130.149.60.45/~farbmetrikk/SS20/SS20L0N1.TXT/.PS; comience salida
N: ninguna 3D-linealización (OL) en archivo (F) o PS-startup (S), página 1/1



véa archivos semejantes: http://130.149.60.45/~farbmetrikk/SS20/SS20.HTM
información técnica: http://www.ps.bam.de o http://130.149.60.45/~farbmetrikk

Input	Output	Input and output media and applications	Output media	Application	Standard
Input media					
-	-	-	-	Basis	DIN 33866-1
analog	analog	DIN-test chart (hardcopy)	Hardcopy	Copier	DIN 33866-2
analog	digital	DIN-test chart (hardcopy)	File	Scanner	DIN 33866-4
digital	analog	DIN-test chart (File)	[Hardcopy Softcopy]	[Printer Display]	[DIN 33866-3 DIN 33866-5]

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Input	Output	Input and output media and applications	Output media	Application	Standard or TR
Input media					
-	-	-	-	Basis	ISO/IEC TR 24705
analog	analog	ISO/IEC-test chart (hardcopy)	Hardcopy	Copier	ISO/IEC 15775
analog	digital	ISO/IEC-test chart (hardcopy)	File	Scanner	ISO/IEC TR 24705
digital	analog	ISO/IEC-test chart (File)	[Hardcopy Softcopy]	[Printer Display]	[ISO/IEC TR 24705 ISO/IEC TR 24705]

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Input	Output	Input and output media and applications	Output media	Application	Technical Report (TR) or Standard	Method & Test: Linearization
Input media						
-	-	-	-	Basis	ISO/IEC TR 24705	[DIN 33866-1 DIN 33872-1]
analog	analog	ISO/IEC-file series equally spaced in rgb^* + ISO/IEC-test chart (hardcopy) series equally spaced in L^*	Hardcopy	Copier	ISO/IEC 15775	[DIN 33866-2 JIS X 6933]
analog	digital	ISO/IEC-test chart (hardcopy) series equally spaced in L^*	File	Scanner	ISO/IEC TR 24705	[DIN 33866-4]
digital	analog	ISO/IEC-test chart (File) series equally spaced in rgb	[Hardcopy Softcopy]	[Printer Display]	[ISO/IEC TR 24705 ISO/IEC TR 24705 ISO 9241-306:2008]	[DIN 33866-3 DIN 33872-2,4 DIN 33866-5 DIN 33872-2,4]

The ISO/IEC-input linearisation method produces an ISO/IEC-file from an ISO/IEC-original scene:
Flower motif with 16 equidistant grey steps, and 14 CIE-test colours according to CIE 13.3

The ISO/IEC-output linearisation method produces from an ISO/IEC-file a linearized display, offset or printer output:

ISO/IEC-input linearisation method			ISO/IEC-output linearisation method		
Input	Output	Application	Input	Output media	Application
Technical Report (TR) or Standard			Technical Report (TR) or Standard		
Original scene + CIE colours	ISO/IEC Image File	Reference Image File	ISO/IEC 15775 ISO/IEC TR 24705	ISO/IEC File ISO/IEC File ISO/IEC File	Printer Display Offset Printer
					ISO 9241-306:2008 8 viewing conditions CIE R8-2015 device space + device-independent visual RGB [*] space

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What is Output Linearization? (For the elementary hues, see CIE R1-47:2009.)
The colour space of a double cone includes 6 colours. The six colours can be the device-dependent device colours (index d): (R, Y, G, B, N, W)_d or the device-independent elementary colours (index e): (R, Y, G, B, N, W)_e. Elementary red appears neither yellowish nor bluish. The hue angle is $h_{ab,e} = 26$.

For example for the $sRGB$ colours according to IEC 61966-2-1 it is valid:
Device red R_d has the coordinates $rgb^*_{d,Rd} = (L^*, C^*_{ab}, h_{ab})_{Rd}$
Elementary red R_e has the coordinates $rgb^*_{e,Rd} = (L^*, C^*_{ab}, h_{ab})_{Re}$
Corresponding data are given in the following for R_d , R_e , and $W=W_d=W_e$

$$rgb^*W = (1 \ 1 \ 1)W$$

$$LCh^*W = (L^*, C^*_{ab}, h_{ab})W = (95, 0, -)W$$

$$rgb^*_{d,Rd} = (1 \ 0 \ 0)_{Rd}$$

$$LCh^*_{d,Rd} = (50, 100, 40)_{Rd}$$

$$rgb^*_{Re} = (1 \ 0 \ 0)_{Re}$$

$$LCh^*_{Re} = (50, 87, 26)_{Re}$$

Output Linearization of CIE R1-09:2015 produces for the hue angle $h_{ab,Re} = 26$ the CIELAB data $L^*_{Re} = 50$ and $C^*_{ab,Re} = 87$. These CIELAB data are produced with the device to elementary input data (de)
 $rgb^*_{de,Re} = (1 \ 0 \ 0, 26)_{de,Re}$

A calculated table for 360 hue angles includes:

$$h_{ab}$$

$$LCh^*_{de}$$

$$rgb^*_{de}$$

$$26$$

$$50$$

$$87$$

$$26$$

$$1 \ 0 \ 0, 26$$

Three device (d) coordinates rgb^*_d describe 8 device colours RGB_d , CMY_d , and NW .
Hexagon-triangle system based on device (d) colours: $rgb^*_{d,a}$ with linear relations between $rgb^*_{d,a} - LCh^*_{d,a}$ (compare approximately linear relations between rgb^*_{sRGB} and L^*)

Equations $rgb^*_{d,a} - LCh^*_{d,a}$ in both directions have been published, see: Richter, CIE-Proceedings, Beijing, 2008, Volume 3 and DIN 33872-1

Three equations (tables) are needed for office applications:

$$rgb^*_{d,Rd} - LCh^*_{d,Rd}$$
 for a 9x9x9 grid of equally spaced rgb^*_d input data

$$rgb^*_{d,LCh^*_{d,Rd}}$$
 a 9x9x9 grid of equally spaced data $rgb^*_{d,Rd}$ and $LCh^*_{d,Rd}$

$$rgb^*_{d,Rd} - LCh^*_{d,Rd} - LCh^*_{d,Rd}$$
 device linearization: $rgb^*_{d,Rd} ->rgb^*_{d,Rd} = rgb^*_{d,Rd}$

Three elementary (e) coordinates rgb^*_e describe 8 colours RGB_e , CMY_e , and NW .
Hexagon-triangle system based on elementary (e) colours: $rgb^*_{e,e}$ with linear relations between $rgb^*_{e,e} - LCh^*_{e,e}$ (compare approximately linear relations between rgb^*_{sRGB} and L^*)

Equations $rgb^*_{e,e} - LCh^*_{e,e}$ in both directions have been published, see: Richter, CIE-Proceedings, Beijing, 2008, Volume 3 and DIN 33872-1

Three equations (tables) are needed for office applications:

$$rgb^*_{d,Rd} - LCh^*_{d,Rd}$$
 for a 9x9x9 grid of equally spaced rgb^*_d input data

$$rgb^*_{e,Rd} - LCh^*_{e,Rd}$$
 a 9x9x9 grid of equally spaced data $rgb^*_{d,Rd}$ and $LCh^*_{e,Rd}$

$$rgb^*_{e,Rd} - LCh^*_{e,Rd} - LCh^*_{e,Rd}$$
 elementary linearization: $rgb^*_{d,Rd} ->rgb^*_{e,Rd} = rgb^*_{d,Rd}$

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entrada: $w/rgb/cmky \rightarrow w/rgb/cmky$

salida: ningún cambio