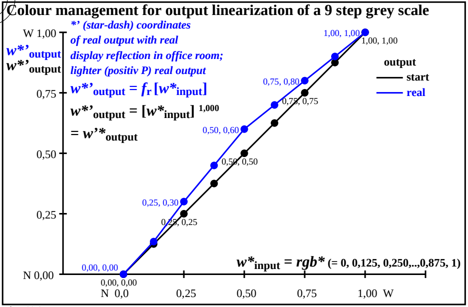
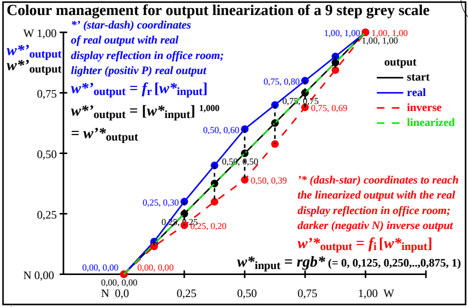
http://farbe.li.tu-berlin.de/hem8/hem8l0n1.txt /.ps; only vector graphic VG; start output
see separate images of this page: http://farbe.li.tu-berlin.de/hem8/hem8.htm

Colour management for output linearization of a 9 step grey scale



hem80-3n

Colour management for output linearization of a 9 step grey scale



hem81-3n

s: 0, 125, 250, 375, 500, 625, 750, 875, 1000
Gelb Y00w − Gelb Y16w = White W

$L^*_{TUBLOG,U}$=[50/log(5)] log(Y/Y_U)+50, Y_N=4, Y_U=20, Y_W=100

Three, 5 and 9 colour steps for visual evaluation

Y00w Y08w Y16w | Y00w Y04w Y08w Y12w Y16w | Y00w Y02w Y04w Y06w Y08w Y10w Y12w Y14w Y16w

0 12? 25? 37? 50? 62? 75? 87? 100

Three, 5 and 9 colour steps, numeric specification

0,00 0,00	e08=0, . . a1=e08	1,00 1,00

0,00 0,00	e04=0, . . b1=e04*a1	1,00 0,00 b2=a1	e48=0, . . b3=e48* (1−b2)+b2	1,00 1,00

0,00 0,00	e02=0, . . c1=e02*b1	1,00 0,00 c2=b1	c24=0, . . c3=e24* (b2−b1)+b1	0,00 1,00 c4=b2	e46=0, . . c5=e46* (b3−b2)+b2	1,00 0,00 c6=b3	e68=0, . . c7=e68* (1−b3)+b3	1,00 1,00

Three, 5 and 9 colour steps, numeric calculation example

0,00 0,000 0,000	0,60 0,600 0,390	1,00 1,000 1,000

0,00 0,000 0,000	0,50 0,300 0,202	1,00 0,00 0,600 0,390	0,50 0,800 0,690	1,00 1,000 1,000

0,00 0,000 0,000	0,45 0,135 0,115	1,00 0,00 0,300 0,202	0,50 0,450 0,299	0,00 1,00 0,600 0,390	0,50 0,700 0,538	1,00 0,00 0,800 0,690	0,49 0,900 0,844	1,00 1,000 1,000

r: 0, 135, 300, 450, 600, 700, 800, 900, 1000
i: 0, 115, 202, 299, 390, 538, 690, 844, 1000
Gelb Y00w − Gelb Y16w = White W

$L^*_{TUBLOG,U}$=[50/log(5)] log(Y/Y_U)+50, Y_N=4, Y_U=20, Y_W=100

Three, 5 and 9 colour steps, produced visual linearization

Y00w Y08w Y16w | Y00w Y04w Y08w Y12w Y16w | Y00w Y02w Y04w Y06w Y08w Y10w Y12w Y14w Y16w

hem80-7n, Test samples: 3, 5 and 9 colour steps, greu=0,500, expu=1,000, expa=1,000, expi=1,000

TUB-test chart hem8; adjacent grey samples for visual intervall scaling, evaluation of the series
Y_W with 3, 5 and 9 steps, output $(rgb^*)^{1,0}$ & experimental; surround mean Grey U=N08w

see similar files of the whole serie: http://farbe.li.tu-berlin.de/hems.htm
technical information: http://farbe.li.tu-berlin.de or http://color.li.tu-berlin.de

TUB registration: 20241001-hem8/hem8l0n1.txt /.ps
application for evaluation and measurement of display or print output

TUB material: code=rha4ta