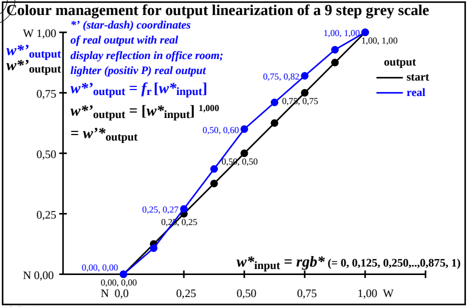
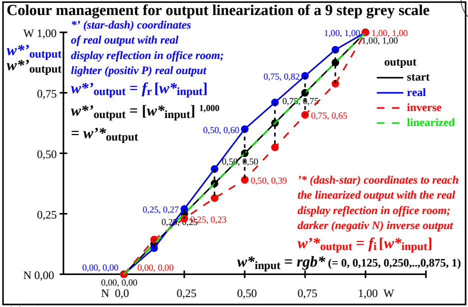
http://farbe.li.tu-berlin.de/hek4/hek4l0n1.txt /.ps; only vector graphic VG; start output
see separate images of this page: http://farbe.li.tu-berlin.de/hek4/hek4.htm

Colour management for output linearization of a 9 step grey scale



hek40-3n

Colour management for output linearization of a 9 step grey scale



hek41-3n

s: 0, 125, 250, 375, 500, 625, 750, 875, 1000
Red R00w − Red R16w = 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

R00w R08w R16w | R00w R04w R08w R12w R16w | R00w R02w R04w R06w R08w R10w R12w R14w R16w

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

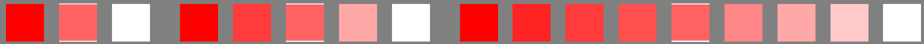
0,00 0,000 0,000	0,45 0,270 0,230	1,00 0,00 0,600 0,390	0,55 0,820 0,658	1,00 1,000 1,000

0,00 0,000 0,000	0,40 0,108 0,143	1,00 0,00 0,270 0,230	0,49 0,435 0,314	0,00 1,00 0,600 0,390	0,50 0,710 0,524	1,00 0,00 0,820 0,658	0,60 0,928 0,787	1,00 1,000 1,000

r: 0, 108, 270, 435, 600, 710, 820, 928, 1000
i: 0, 143, 230, 314, 390, 524, 658, 787, 1000
Red R00w − Red R16w = 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



R00w R08w R16w | R00w R04w R08w R12w R16w | R00w R02w R04w R06w R08w R10w R12w R14w R16w

hek40-7n, Test samples: 3, 5 and 9 colour steps, greu=0,500, expu=1,000, expa=1,000, expi=1,000

TUB-test chart hek4; separate grey samples for visual intervall scaling, evaluation of the series
R_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/heks.htm
technical information: http://farbe.li.tu-berlin.de or http://color.li.tu-berlin.de

TUB registration: 20241001-hek4/hek4l0n1.txt /.ps
application for evaluation and measurement of display or print output

TUB material: code=rha4ta