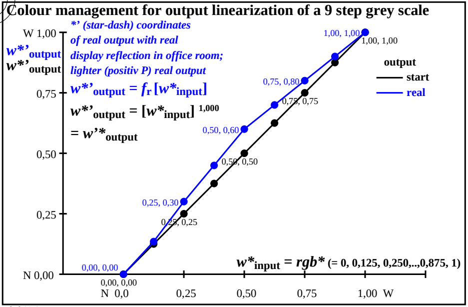
http://farbe.li.tu-berlin.de/hek8/hek8l0n1.txt /.ps; only vector graphic VG; start output
see separate images of this page: http://farbe.li.tu-berlin.de/hek8/hek8.htm

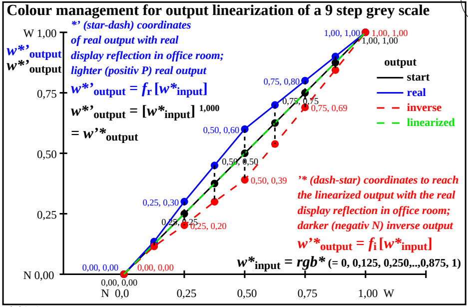
see similar files of the whole serie: http://farbe.li.tu-berlin.de/heks.htm
technical information: http://farbe.li.tu-berlin.de or http://color.li.tu-berlin.de

Colour management for output linearization of a 9 step grey scale



hek80-3n

Colour management for output linearization of a 9 step grey scale



hek81-3n

Three, 5 and 9 colour steps for visual evaluation

s: 0, 125, 250, 375, 500, 625, 750, 875, 1000
Green G00w − Green G16w = White W

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

G00w G08w G16w | G00w G04w G08w G12w G16w | G00w G02w G04w G06w G08w G10w G12w G14w G16w

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

Three, 5 and 9 colour steps, produced visual linearization

Green G00w − Green G16w = White W

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

G00w G08w G16w | G00w G04w G08w G12w G16w | G00w G02w G04w G06w G08w G10w G12w G14w G16w

hek80-7n, Test samples: 3, 5 and 9 colour steps, greu=0,500, expu=1,000, expa=1,000, expi=1,000

TUB-test chart hek8; adjacent grey samples for visual intervall scaling, evaluation of the series G_W with 3, 5 and 9 steps, output $(rgb^*)^{1,0}$ & experimental; surround mean Grey U=N08w

TUB registration: 20241001-hek8/hek8l0n1.txt /.ps
application for evaluation and measurement of display or print output

TUB material: code=rha4ta