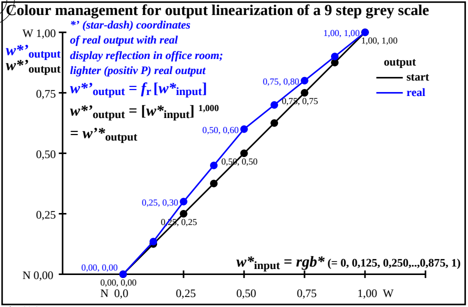
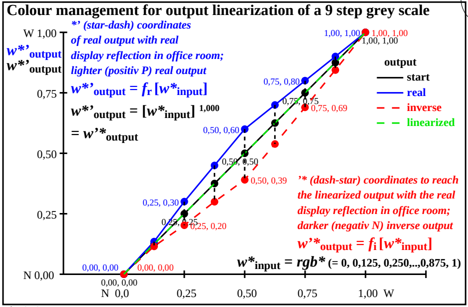
http://farbe.li.tu-berlin.de/heg3/heg3l0n1.txt /.ps; only vector graphic VG; start output
see separate images of this page: http://farbe.li.tu-berlin.de/heg3/heg3.htm

Colour management for output linearization of a 9 step grey scale



heg30-3n

Colour management for output linearization of a 9 step grey scale



heg31-3n

Three, 5 and 9 colour steps for visual evaluation

s: 0, 125, 250, 375, 500, 625, 750, 875, 1000
Black N00w − Black N16w = White W

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

N00w	N08w	N16w		N00w	N04w	N08w	N12w	N16w		N00w	N02w	N04w	N06w	N08w	N10w	N12w	N14w	N16w
										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
Black N00w − Black N16w = White W

Three, 5 and 9 colour steps, produced visual linearization

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

N00w	N08w	N16w	N00w	N04w	N08w	N12w	N16w	N00w	N02w	N04w	N06w	N08w	N10w	N12w	N14w	N16w

heg30-7n, Test samples: 3, 5 and 9 colour steps, greu=0,500, expu=1,000, expa=1,000, expi=1,000

TUB-test chart heg3; adjacent grey samples for visual intervall scaling, evaluation of the series
N_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/hegs.htm
technical information: http://farbe.li.tu-berlin.de or http://color.li.tu-berlin.de

TUB registration: 20241001-heg3/heg3l0n1.txt /.ps
application for evaluation and measurement of display or print output

TUB material: code=rha4ta