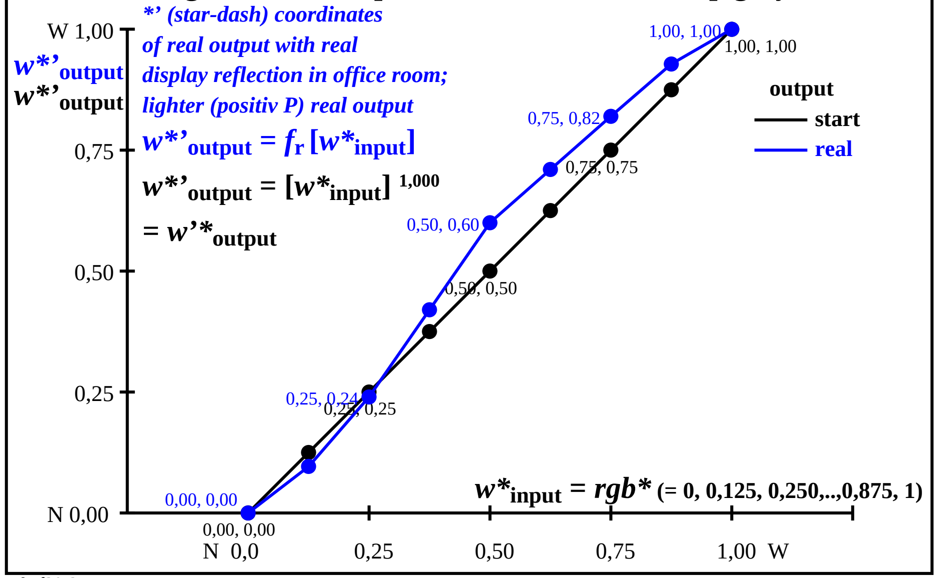
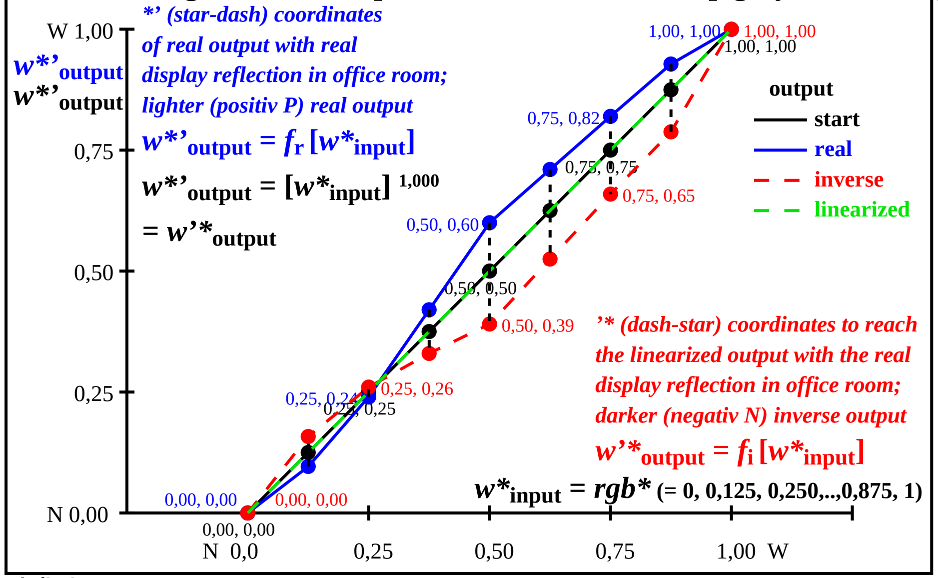
http://farbe.li.tu-berlin.de/hef3/hef3l0np.pdf /.ps; only vector graphic VG; start output
see separate images of this page: http://farbe.li.tu-berlin.de/hef3/hef3.htm

Colour management for output linearization of a 9 step grey scale



hef30-3n

Colour management for output linearization of a 9 step grey scale



hef31-3n

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	0,40 0,240 0,260	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 0,096 0,157	1,00 0,00 0,240 0,260	0,50 0,420 0,329	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, 96, 240, 420, 600, 710, 820, 928, 1000
Three, 5 and 9 colour steps, produced visual linearization

i: 0, 157, 260, 329, 390, 524, 658, 787, 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

hef30-7n, Test samples: 3, 5 and 9 colour steps, greu=0,500, expu=1,000, expa=1,000, expi=1,000

TUB-test chart hef3; Separate 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/hefs.htm
technical information: http://farbe.li.tu-berlin.de or http://color.li.tu-berlin.de

TUB registration: 20241001-hef3/hef3l0np.pdf /.ps
application for evaluation and measurement of display or print output

TUB material: code=rha4ta