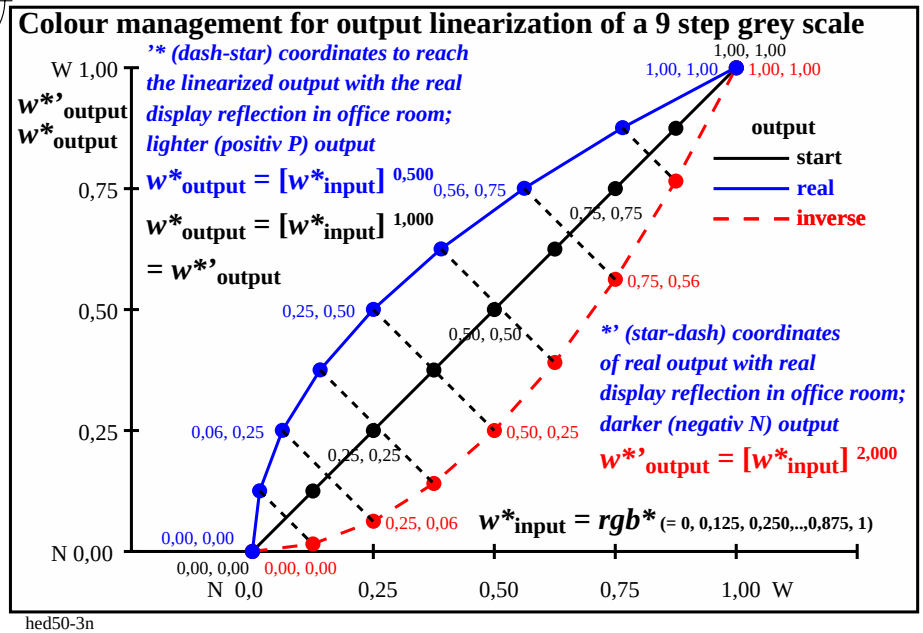
see similar files of the whole serie: http://farbe.li.tu-berlin.de/heds.htm
technical information: http://farbe.li.tu-berlin.de or http://color.li.tu-berlin.de

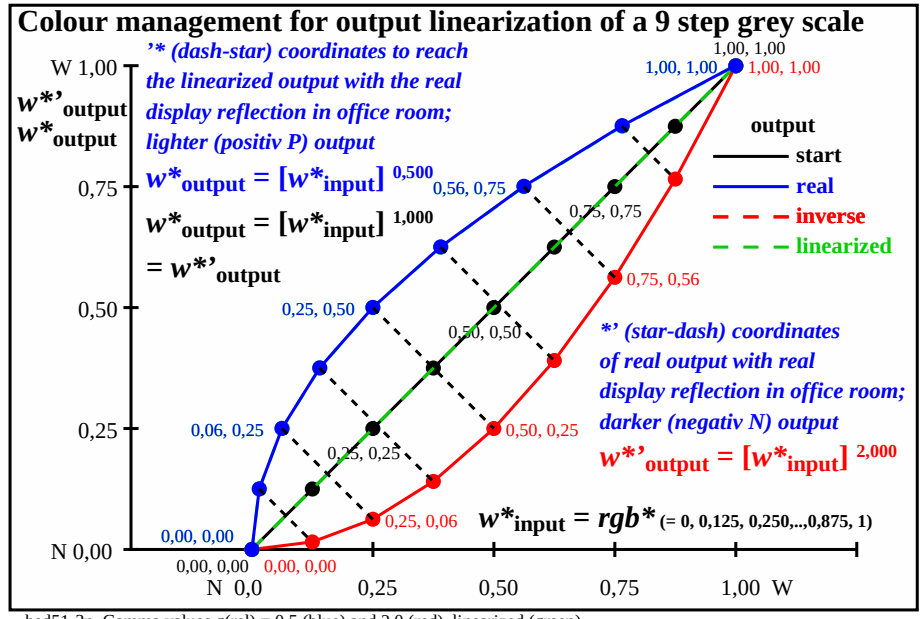
TUB registration: 20241001-hed5/hed5l0np.pdf /.ps
application for evaluation and measurement of display or print output
TUB material: code=rha4ta

Colour management for output linearization of a 9 step grey scale



hed50-3n

Colour management for output linearization of a 9 step grey scale



hed51-3n, Gamma values g(rel) = 0,5 (blue) and 2,0 (red), linearized (green)

Three, 5 and 9 colour steps for visual evaluation

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

Three, 5 and 9 colour steps, numeric specification

0,00	e08=0, . .	1,00	0,00	e04=0, . .	1,00	e48=0, . .	1,00	0,00	e02=0, . .	1,00	e24=0, . .	0,00	e46=0, . .	1,00	e68=0, . .	1,00
0,00	a1=e08	1,00	0,00	b1=e04*a1	0,00 b2=a1	b3=e48* (1−b2)+b2	1,00	0,00	c1=e02*b1	0,00 c2=b1	c3=e24* (b2−b1)+b1	1,00 c4=b2	c5=e46* (b3−b2)+b2	0,00 c6=b3	c7=e68* (1−b3)+b3	1,00

Three, 5 and 9 colour steps, numeric calculation example

0,00	0,50	1,00	0,00	0,50	1,00	0,50	1,00	0,00	0,50	1,00	0,50	0,00	0,50	1,00	0,50	1,00
0,000	0,500	1,000	0,000	0,250	0,500	0,750	1,000	0,000	0,125	0,250	0,375	0,500	0,625	0,750	0,875	1,000

Three, 5 and 9 colour steps, produced visual linearization

0, 350, 499, 612, 707, 790, 865, 935, 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

hed50-7n, Test samples: 3, 5 and 9 colour steps, greu=0,500, expu=1,000, expa=1,000, expi=1,000

TUB-test chart hed5; 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