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

TUB registration: 20240901-hea9/hea9l0np.pdf /.ps
application for evaluation and measurement of display or print output
TUB material: code=ha4ta

Three, 5 and 9 colour steps for visual evaluation

0, 353, 500, 612, 707, 790, 866, 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
0	50?	100	0	25?	50?	75?	100	0	12?	25?	37?	50?	62?	75?	87?	100

Three, 5 and 9 colour steps, numeric specification

0,00	0, . .	1,00	0,00	0, . .	1,00 0,00	0, . .	1,00	0,00	0, . .	1,00 0,00	0, . .	0,00 1,00	0, . .	1,00 0,00	0, . .	1,00
	e08			e04		e48			e02		e24		e46		e68	

Three, 5 and 9 colour steps, numeric calculation

0,00 0,00	e08=0,70 a1=e08	1,00 1,00	0,00 0,00	e04=0,70 b1=e04*a1	1,00 0,00 b2=a1	e48=0,54 b3=e48*a1	1,00 1,00	0,00 0,00	e02=0,70 c1=e02*b1	1,00 0,00 c2=b1	c24=0,54 c3=e24*b1	0,00 1,00 c4=a1	e46=0,52 c5=e46*b3	1,00 0,00 c6=b3	e68=0,51 c7=e68*b3	1,00 1,00

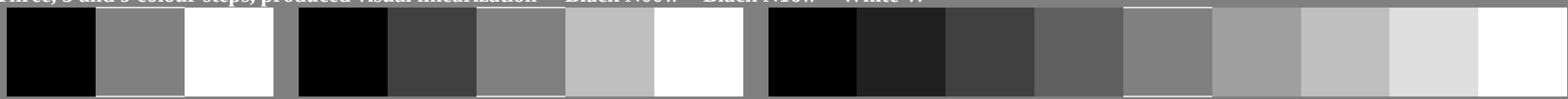
Three, 5 and 9 colour steps, numeric calculation example

0,00 0,00	0,70 0,70	1,00 1,00	0,00 0,00	0,70 0,50	1,00 0,00 0,70	0,54 0,86	1,00 1,00	0,00 0,00	0,70 0,35	1,00 0,00 0,50	0,54 0,61	0,00 1,00 0,70	0,52 0,79	1,00 0,00 0,86	0,51 0,93	1,00 1,00

Three, 5 and 9 colour steps, produced visual linearization

0, 124, 250, 375, 499, 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	50	100	0	25	50	75	100	0	12	25	37	50	62	75	87	100

hea90-7n, Test samples: 3, 5 and 9 colour steps, greu=0,500, expu=1,000, expa=0,500, expi=2,000

TUB-test chart hea9; Adjacent grey samples for visual intervall scaling, evaluation of the series N−W with 3, 5 and 9 steps, output $(rgb^*)^{0,5}$ & $[(rgb^*)^{0,5}]^{2,0}$; surround mean Grey U=N08w