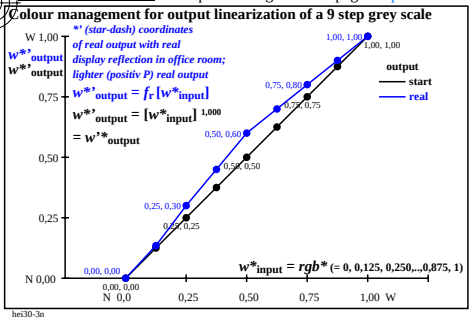
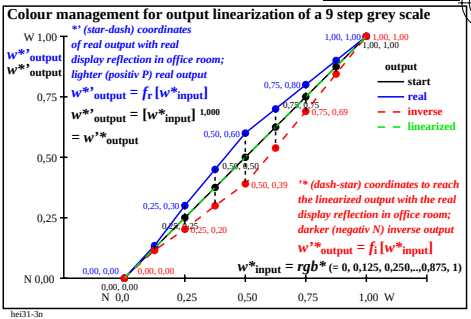
see similar files of the whole serie: http://farbe.li.tu-berlin.de or http://color.li.tu-berlin.de
technical information: http://farbe.li.tu-berlin.de/heis.htm

TUB registration: 20241001-hei3/hei3l0n1.txt /.ps
application for evaluation and measurement of display or print output
TUB material: code=rha4a

Colour management for output linearization of a 9 step grey scale



Colour management for output linearization of a 9 step grey scale



Three, 5 and 9 colour steps for visual evaluation

s: 0, 125, 250, 375, 500, 625, 750, 875, 1000 $L^*_{TUBLOG,U}$=[50/log(5)] log(Y/Y_U)+50, Y_N=4, Y_U=20, Y_W=100

Black N00b − Black N16b = Blue B

N00b	N08b	N16b	N00b	N04b	N08b	N12b	N16b	N00b	N02b	N04b	N06b	N08b	N10b	N12b	N14b	N16b
								0	12?	25?	37?	50?	62?	75?	87?	100

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		c24=0, . .	0,00 1,00		e46=0, . .	1,00 0,00		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	c2=b1		c3=e24* (b2−b1)+b1	c4=b2		c5=e46* (b3−b2)+b2	c6=b3		c7=e68* (1−b3)+b3	1,00

Three, 5 and 9 colour steps, numeric calculation example

0,00	0,60	1,00	0,00	0,50	1,00		0,50	1,00	0,00	0,45	1,00		0,50	0,00 1,00	0,50	1,00	0,00 0,00	0,49	1,00
0,000	0,600	1,000	0,000	0,300	0,600	0,800	1,000		0,000	0,135	0,300	0,450	0,600	0,700	0,800	0,900	1,000		
0,000	0,390	1,000	0,000	0,202	0,390	0,690	1,000		0,000	0,115	0,202	0,299	0,390	0,538	0,690	0,844	1,000		

r: 0, 135, 300, 450, 600, 700, 800, 900, 1000 i: 0, 115, 202, 299, 390, 538, 690, 844, 1000 $L^*_{TUBLOG,U}$=[50/log(5)] log(Y/Y_U)+50, Y_N=4, Y_U=20, Y_W=100

Three, 5 and 9 colour steps, produced visual linearization

Black N00b − Black N16b = Blue B

N00b	N08b	N16b	N00b	N04b	N08b	N12b	N16b	N00b	N02b	N04b	N06b	N08b	N10b	N12b	N14b	N16b

TUB-test chart hei3; adjacent grey samples for visual intervall scaling, evaluation of the series N_B with 3, 5 and 9 steps, output (*rgb**)1,0 & experimental; surround mean Grey U=N08w