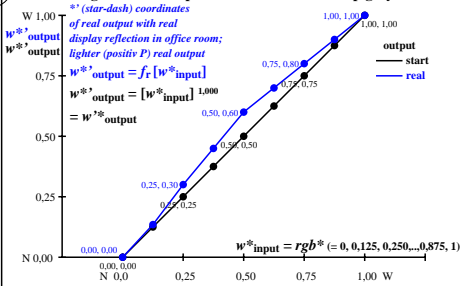
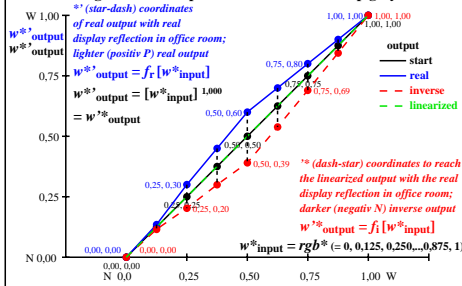


Colour management for output linearization of a 9 step grey scale



Colour management for output linearization of a 9 step grey scale



heg20-3n

heg21-3n

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 N00w – Black N16w = White W

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
N00w	N08w	N16w	N00w	N04w	N08w	N12w	N16w	N00w	N02w	N04w	N06w	N08w	N10w	N12w	N14w	N16w
0	12	25	0	12	25	37	50	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	0,00	e48=0, .. 1,00	0,00	e6=0, .. 1,00																
0,00	a1=e08	0,00	b1=e04*a1	0,00	b2=a1	0,00	b3=e48*	0,00	c1=e02*b1	0,00	c2=b1	0,00	c3=e24*	0,00	c4=b2	0,00	c5=e46*	0,00	c6=b3	0,00	c7=e68*	0,00	e68=0, .. 1,00
					(1-b2)+b2								(b2-b1)+b1				(b3-b2)+b2				(1-b3)+b3		

Three, 5 and 9 colour steps, numeric calculation example

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

r: 0, 135, 300, 450, 600, 700, 800, 900, 1000 $L^*_{TUBLOG,U}=[50/\log(5)] \log(Y/Y_U)+50, Y_N=4, Y_U=20, Y_W=100$
 i: 0, 115, 202, 299, 390, 538, 690, 844, 1000
 Black N00w – Black N16w = White W

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

30-7n, Test samples: 1, 5 and 9 colour steps, gamma=0.500, expno=1.000, expin=1.000

TUB-test chart heg2; separate grey samples for visual interval 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 series: <http://farbe.li.tu-berlin.de/heg3.htm>
 technical information: <http://farbe.li.tu-berlin.de> or <http://color.li.tu-berlin.de>

TUB registration: 20241001-heg2/heg210n1.txt / .ps
 application for evaluation and measurement of display or print output
 TUB material: code=mathta