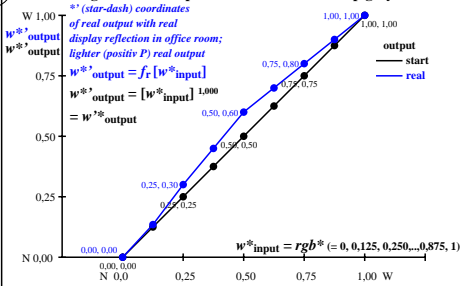
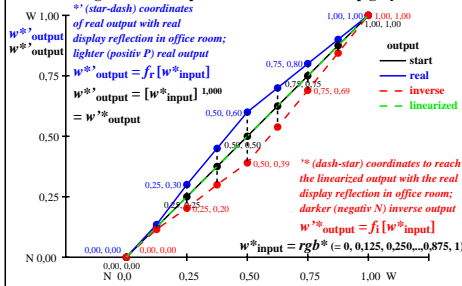


### Colour management for output linearization of a 9 step grey scale



### Colour management for output linearization of a 9 step grey scale



heh70-3n

heh71-3n

Three, 5 and 9 colour steps for visual evaluation s: 0, 125, 250, 375, 500, 625, 750, 875, 1000  
 Black N00g - Black N16g = Green G  $L^*_{TUBLOG,U}=[50/\log(5)] \log(Y/Y_U)+50, Y_N=4, Y_U=20, Y_W=100$

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
N00g	N08g	N16g	N00g	N04g	N08g	N12g	N16g	N00g	N02g	N04g	N06g	N08g	N10g	N12g	N14g	N16g

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	e02=0,...	1,00	0,00	e46=0,...	1,00	0,00	e68=0,...	1,00
0,00	a1=e08	1,00	0,00	b1=e04*a1	b2=a1	0,00	b3=e48* (1-b2)+b2	1,00	0,00	c1=e02*b1	c2=b1	0,00	c4=b2	c5=e46* (b3-b2)+b2	0,00	c6=b3	c7=e68* (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	0,49	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	0,300	0,600	0,000	0,800	0,900
0,000	0,390	1,000	0,000	0,202	0,390	0,000	0,202	0,390	0,000	0,115	0,202	0,000	0,299	0,390	0,000	0,690	0,844

r: 0, 135, 300, 450, 600, 700, 800, 900, 1000 i: 0, 115, 202, 299, 390, 538, 690, 844, 1000  
 Black N00g - Black N16g = Green G  $L^*_{TUBLOG,U}=[50/\log(5)] \log(Y/Y_U)+50, Y_N=4, Y_U=20, Y_W=100$

Three, 5 and 9 colour steps, produced visual linearization

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
N00g	N08g	N16g	N00g	N04g	N08g	N12g	N16g	N00g	N02g	N04g	N06g	N08g	N10g	N12g	N14g	N16g

heh70-7n: Test samples: 1, 5 and 9 colour steps, (p=0-500, exp=1-1000, exp=1-1000)

TUB-test chart heh7; separate grey scales for visual interval scaling, evaluation of the series N\_G with 3, 5 and 9 steps, output (*rgb*<sup>\*</sup>)<sup>1,0</sup> & experimental; surround mean Grey U=N08w

see similar files of the whole series: <http://farbe.li.tu-berlin.de/heh3.htm>  
 technical information: <http://farbe.li.tu-berlin.de> or <http://color.li.tu-berlin.de>

TUB registration: 20241001-heh7/heh7l0n1.txt/.ps  
 application for evaluation and measurement of display or print output

TUB material: code=mathta