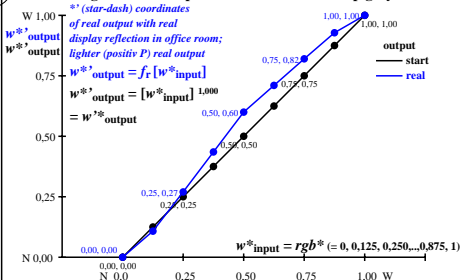
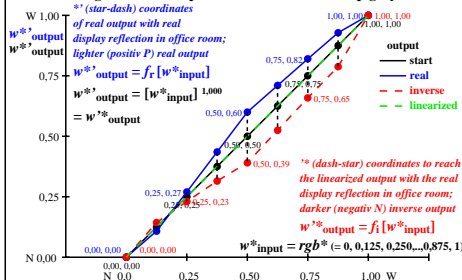


### Colour management for output linearization of a 9 step grey scale



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



hei40-3n

hei41-3n

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



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	b1=e04*a1	0,00	b3=e48*	0,00	c1=e02*b1	0,00	c3=e24*	0,00	c7=e68*
		1,00	b2=a1	0,00	(1-b2)+b2	0,00	c2=b1	0,00	(b2-b1)+b1	0,00	(1-b3)+b3
		1,00		0,00		0,00		0,00		0,00	
		1,00		0,00		0,00		0,00		0,00	
		1,00		0,00		0,00		0,00		0,00	
		1,00		0,00		0,00		0,00		0,00	
		1,00		0,00		0,00		0,00		0,00	

Three, 5 and 9 colour steps, numeric calculation example

0,00	0,60	1,00	0,00	0,45	1,00	0,00	0,40	1,00	0,00	0,50	1,00	0,00	0,60	1,00
0,000	0,600	1,000	0,000	0,270	0,600	0,000	0,108	0,270	0,000	0,710	0,820	0,000	0,928	1,000
0,000	0,390	1,000	0,000	0,230	0,390	0,000	0,143	0,230	0,000	0,390	0,658	0,000	0,787	1,000

r: 0, 108, 270, 435, 600, 710, 820, 928, 1000  
 i: 0, 143, 230, 314, 390, 524, 658, 787, 1000

Three, 5 and 9 colour steps, produced visual linearization Black N00b – Black N16b = Blue B  $L^*_{TUBLOG,U}=[50/\log(5)] \log(Y/Y_U)+50, Y_N=4, Y_U=20, Y_W=100$



TUB-test chart hei4; separate grey samples for visual interval scaling, evaluation of the series N\_B with 3, 5 and 9 steps, output (rgb\*)<sup>1,0</sup> & experimental; surround mean Grey U=N08w

see similar files of the whole series: <http://farbe.li.tu-berlin.de/hei3.htm>  
 technical information: <http://farbe.li.tu-berlin.de> or <http://color.li.tu-berlin.de>

TUB registration: 20241001-hei4/hei4l0n1.txt /ps  
 application for evaluation and measurement of display or print output  
 TUB material: code=thata