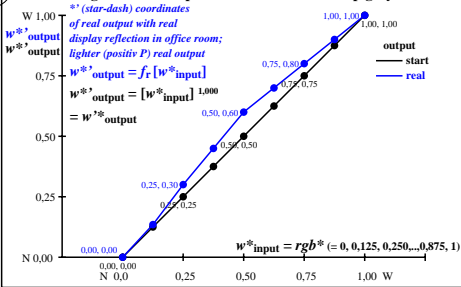
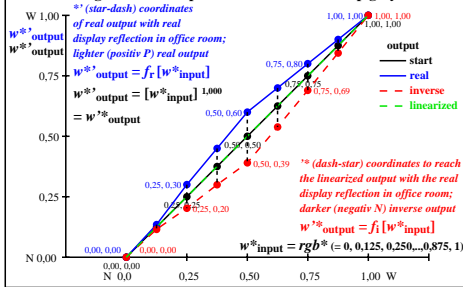


### Colour management for output linearization of a 9 step grey scale



### 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  $L^*_{TUBLOG,U}=[50/\log(5)] \log(Y/Y_U)+50, Y_N=4, Y_U=20, Y_W=100$   
 Gelb Y00w – Gelb Y16w = 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
Y00w	Y08w	Y16w	Y00w	Y04w	Y08w	Y12w	Y16w	Y00w	Y02w	Y04w	Y06w	Y08w	Y10w	Y12w	Y14w	Y16w

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	c24=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	c3=e24*(b2-b1)+b1	c4=b2	0,00	c5=e46*(b3-b2)+b2	c6=b3	0,00	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	0,00	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	0,900	1,000
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	0,844	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 Gelb Y00w – Gelb Y16w = 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
Y00w	Y08w	Y16w	Y00w	Y04w	Y08w	Y12w	Y16w	Y00w	Y02w	Y04w	Y06w	Y08w	Y10w	Y12w	Y14w	Y16w

hem70-7n, Test samples: 3, 5 and 9 colour steps, gsm=0,500, expm=1,000, expm=1,000

TUB-test chart hem7; separate grey samples for visual intervall scaling, evaluation of the series Y\_W with 3, 5 and 9 steps, output (rgb\*)<sup>1.0</sup> & experimental; surround mean Grey U=N08w

see similar files of the whole serie: <http://farbe.li.tu-berlin.de/hem7.htm>  
 technical information: <http://farbe.li.tu-berlin.de> or <http://color.li.tu-berlin.de>

TUB registration: 20241001-hem7/hem7l0n1.txt /ps  
 application for evaluation and measurement of display or print output  
 TUB material: code=thadta