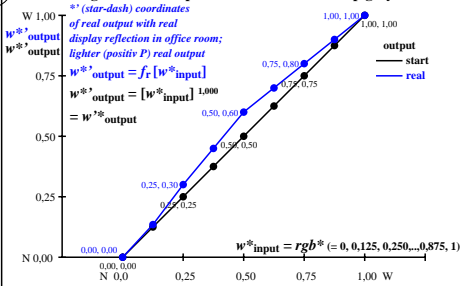
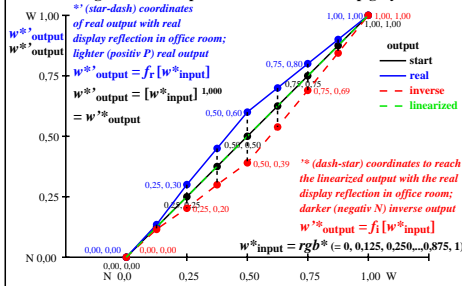


Colour management for output linearization of a 9 step grey scale



Colour management for output linearization of a 9 step grey scale



hek20-3n

hek21-3n

Three, 5 and 9 colour steps for visual evaluation s: 0, 125, 250, 375, 500, 625, 750, 875, 1000 $L^*_{TUBLOG,U}=[50/\log(5)] \log(Y/Y_U)+50, Y_N=4, Y_U=20, Y_W=100$
 Red R00w – Red R16w = 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
R00w	R08w	R16w	R00w	R04w	R08w	R12w	R16w	R00w	R02w	R04w	R06w	R08w	R10w	R12w	R14w	R16w
0,00	e08=0,...	1,00	0,00	e04=0,...	1,00	e48=0,...	1,00	0,00	e02=0,...	1,00	e24=0,...	0,00	e46=0,...	1,00	e68=0,...	1,00
0,00	a1=e08	1,00	0,00	b1=e04*a1	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 specification

0,00	0,60	1,00	0,00	0,50	1,00	0,50	1,00	0,00	0,45	1,00	0,50	0,50	1,00	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

Three, 5 and 9 colour steps, numeric calculation example

0,00	0,50	1,00	0,50	1,00	0,50	1,00	0,00	0,45	1,00	0,50	0,50	1,00	0,49	1,00
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	0,690	0,900	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 Red R00w – Red R16w = 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
R00w	R08w	R16w	R00w	R04w	R08w	R12w	R16w	R00w	R02w	R04w	R06w	R08w	R10w	R12w	R14w	R16w

300-7n: Test samples: 1, 5 and 9 colour steps, (p=0-500, exp=1-1000, exp=1-1000, exp=1-1000)

TUB-test chart hek2; separate grey samples for visual interval scaling, evaluation of the series R_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/heks.htm>
 technical information: <http://farbe.li.tu-berlin.de> or <http://color.li.tu-berlin.de>

TUB registration: 20241001-hek2/hek210n1.txt / .ps
 application for evaluation and measurement of display or print output
 TUB material: code=thafra