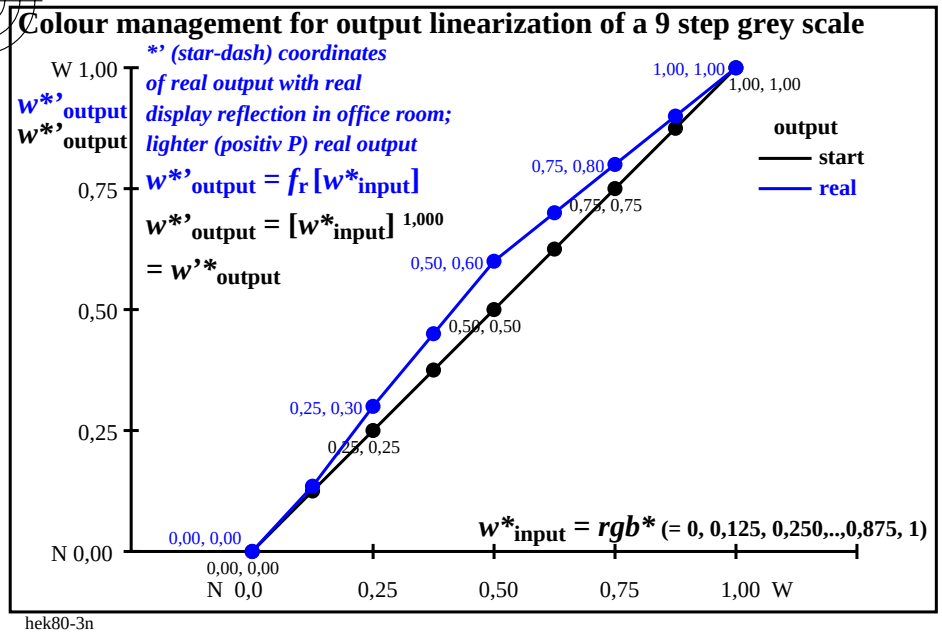
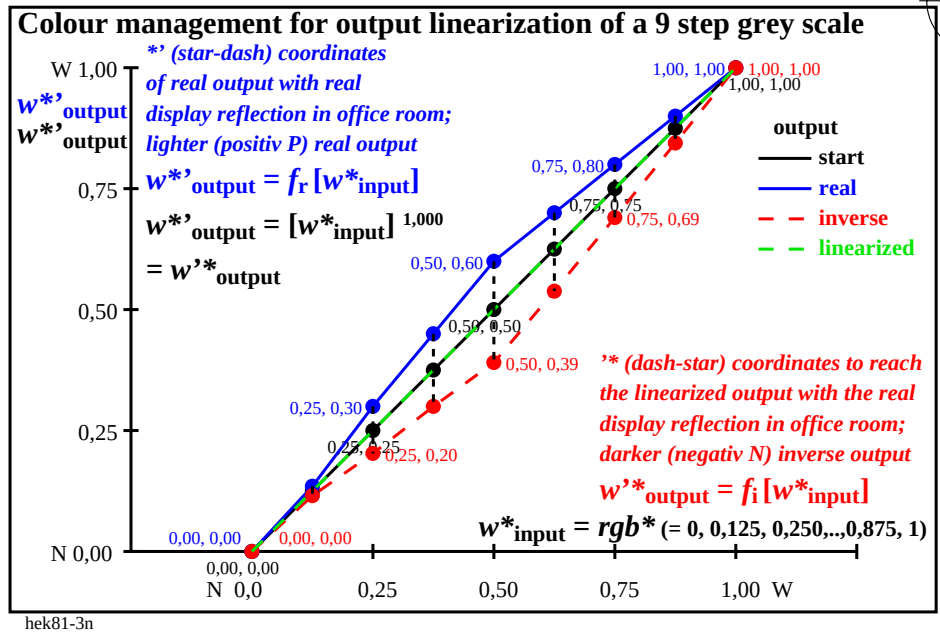
Colour management for output linearization of a 9 step grey scale



hek80-3n

Colour management for output linearization of a 9 step grey scale



hek81-3n

Three, 5 and 9 colour steps for visual evaluation

s: 0, 125, 250, 375, 500, 625, 750, 875, 1000
Green G00w − Green G16w = White W

$L^*_{TUBLOG,U}=[50/\log(5)]\ \log(Y/Y_U)+50$, $Y_N=4$, $Y_U=20$, $Y_W=100$

G00w	G08w	G16w	G00w	G04w	G08w	G12w	G16w	G00w	G02w	G04w	G06w	G08w	G10w	G12w	G14w	G16w

Three, 5 and 9 colour steps, numeric specification

0,00	e08=0, . .	1,00	0,00	e04=0, . .	1,00		0,00	e02=0, . .	1,00		0,00	e46=0, . .	1,00		0,00	
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	0,00 1,00	c4=b2	c5=e46* (b3−b2)+b2	c6=b3	c7=e68* (1−b3)+b3	1,00
G00w	G08w	G16w	G00w	G04w	G08w	G12w	G16w	G00w	G02w	G04w	G06w	G08w	G10w	G12w	G14w	G16w
								0	12?	25?	37?	50?	62?	75?	87?	100

Three, 5 and 9 colour steps, numeric calculation example

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

r: 0, 135, 300, 450, 600, 700, 800, 900, 1000
i: 0, 115, 202, 299, 390, 538, 690, 844, 1000

Three, 5 and 9 colour steps, produced visual linearization

Green G00w − Green G16w = White W

$L^*_{TUBLOG,U}=[50/\log(5)]\ \log(Y/Y_U)+50$, $Y_N=4$, $Y_U=20$, $Y_W=100$

G00w	G08w	G16w	G00w	G04w	G08w	G12w	G16w	G00w	G02w	G04w	G06w	G08w	G10w	G12w	G14w	G16w

hek80-7n, Test samples: 3, 5 and 9 colour steps, greu=0,500, expu=1,000, expa=1,000, expi=1,000

TUB-test chart hek8; adjacent grey samples for visual intervall scaling, evaluation of the series G_W with 3, 5 and 9 steps, output $(rgb^*)^{1,0}$ & experimental; surround mean Grey U=N08w