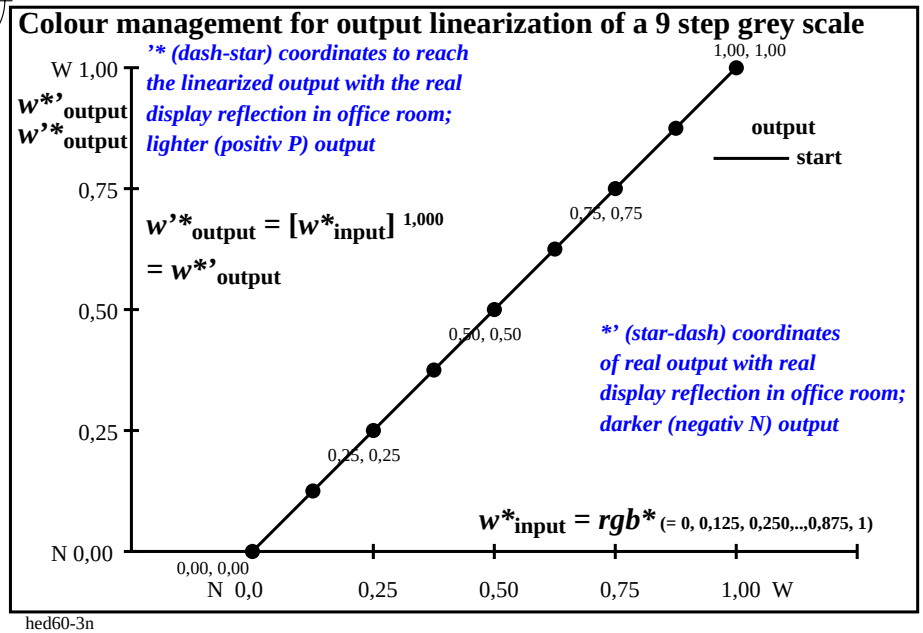
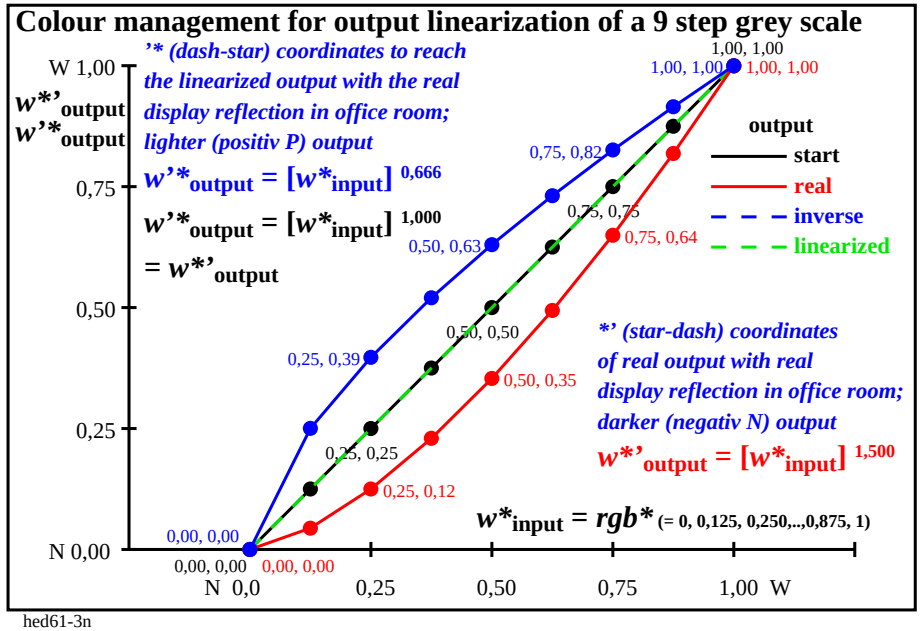
Colour management for output linearization of a 9 step grey scale



hed60-3n

Colour management for output linearization of a 9 step grey scale



hed61-3n

Three, 5 and 9 colour steps for visual evaluation

0, 125, 250, 375, 500, 625, 750, 875, 1000
Black N00w − Black N16w = White W

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

N00w	N08w	N16w	N00w	N04w	N08w	N12w	N16w	N00w	N02w	N04w	N06w	N08w	N10w	N12w	N14w	N16w
								0	12?	25?	37?	50?	62?	75?	87?	100

Three, 5 and 9 colour steps, numeric specification

0,00	e08=0, . .	1,00	0,00	e04=0, . .	1,00		1,00	0,00	e02=0, . .	1,00		0,00	e46=0, . .	1,00		1,00
0,00	a1=e08	1,00	0,00	b1=e04*a1	0,00	e48=0, . . b2=a1	1,00	0,00	c1=e02*b1	0,00	c24=0, . . c2=b1	1,00	c5=e46* (b3−b2)+b2	0,00	e68=0, . . c6=b3	1,00
					b2=a1	b3=e48* (1−b2)+b2					c3=e24* (b2−b1)+b1	c4=b2			c7=e68* (1−b3)+b3	

Three, 5 and 9 colour steps, numeric calculation example

0,00	0,59	1,00	0,00	0,59	1,00		1,00	0,00	0,59	1,00		0,00	0,51	1,00		1,00
0,000	0,594	1,000	0,000	0,353	0,594	0,52 0,805	1,000	0,000	0,210	0,353	0,52 0,479	1,00 0,594	0,702	0,00 0,805	0,50 0,904	1,000

Three, 5 and 9 colour steps, produced visual linearization

0, 350, 499, 612, 707, 790, 865, 935, 1000
Black N00w − Black N16w = White W

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

N00w	N08w	N16w	N00w	N04w	N08w	N12w	N16w	N00w	N02w	N04w	N06w	N08w	N10w	N12w	N14w	N16w

hed60-7n, Test samples: 3, 5 and 9 colour steps, greu=0,500, expu=1,000, expa=0,750, expi=1,330