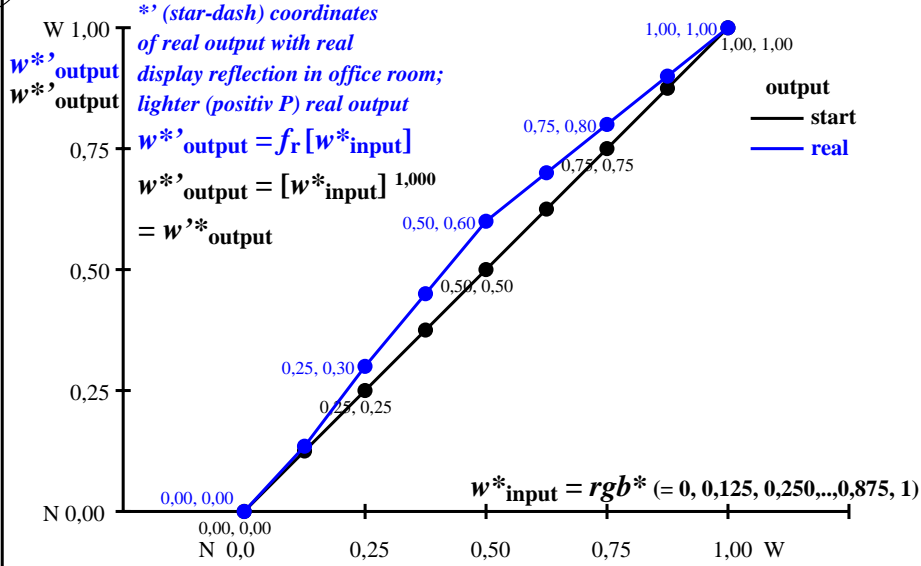
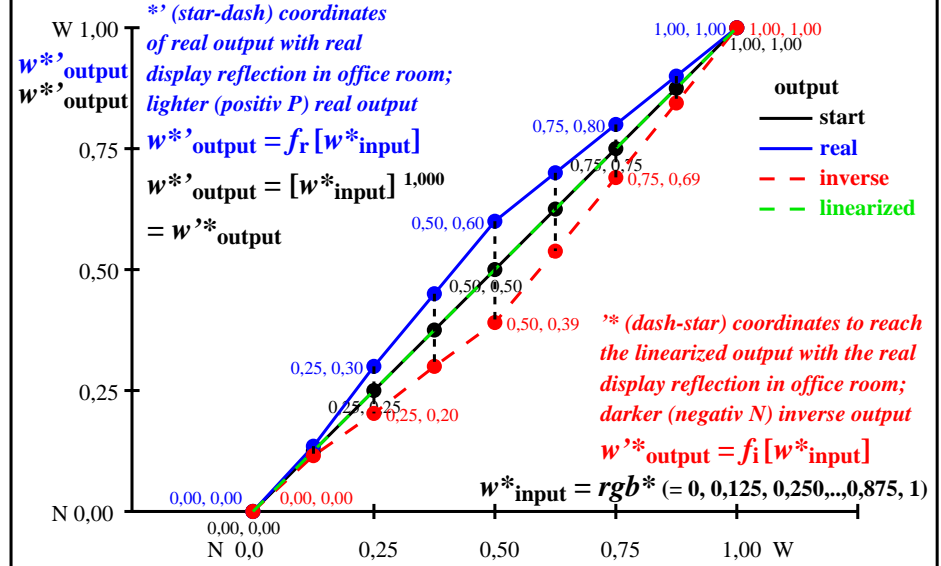


Colour management for output linearization of a 9 step grey scale



Colour management for output linearization of a 9 step grey scale



hek70-3n

hek71-3n

Three, 5 and 9 colour steps for visual evaluation $s: 0, 125, 250, 375, 500, 625, 750, 875, 1000$ $L^*_{TUBLOG,U} = [50/\log(5)] \log(Y/Y_U) + 50, Y_N=4, Y_U=20, Y_W=100$
 Green G00w – Green G16w = 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
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 0,00	e08=0, .. a1=e08	1,00 1,00	0,00 0,00	e04=0, .. b1=e04*a1	1,00 0,00 b2=a1	e48=0, .. b3=e48* (1-b2)+b2	1,00 1,00
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Three, 5 and 9 colour steps, numeric calculation example

0,00 0,00 0,00	0,60 0,600 0,390	1,00 1,000 1,000	0,00 0,000 0,000	0,50 0,300 0,202	1,00 0,600 0,390	0,50 0,800 0,690	1,00 1,000 1,000
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Three, 5 and 9 colour steps, produced visual linearization

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

Three, 5 and 9 colour steps, produced visual linearization

0,000	0,135	0,300	0,450	0,600	0,700	0,800	0,900	1,000	0,000	0,125	0,250	0,375	0,500	0,625	0,750	0,875	1,000
G00w	G02w	G04w	G06w	G08w	G10w	G12w	G14w	G16w	G00w	G02w	G04w	G06w	G08w	G10w	G12w	G14w	G16w

$r: 0, 135, 300, 450, 600, 700, 800, 900, 1000$ $i: 0, 115, 202, 299, 390, 538, 690, 844, 1000$ $L^*_{TUBLOG,U} = [50/\log(5)] \log(Y/Y_U) + 50, Y_N=4, Y_U=20, Y_W=100$
 Green G00w – Green G16w = 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
G00w	G08w	G16w	G00w	G04w	G08w	G12w	G16w	G00w	G02w	G04w	G06w	G08w	G10w	G12w	G14w	G16w

hek70-7n, Test samples: 3, 5 and 9 colour steps, greu=0.500, expu=1.000, expa=1.000, expi=1.000

TUB-test chart hek7; separate 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