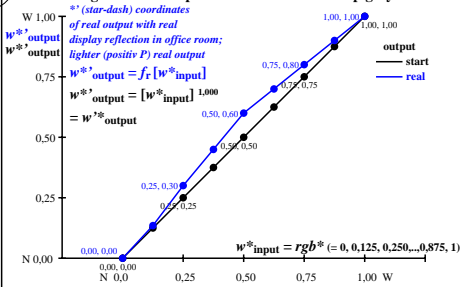
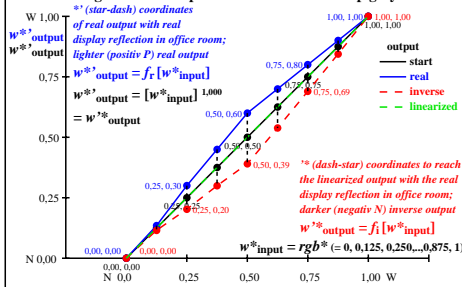


Colour management for output linearization of a 9 step grey scale



Colour management for output linearization of a 9 step grey scale



hej20-3n

hej21-3n

Three, 5 and 9 colour steps for visual evaluation

s: 0, 125, 250, 375, 500, 625, 750, 875, 1000
 Black N00m – Black N16m = Magenta M $L^*_{TUBLOG,U}=[50/\log(5)] \log(Y/Y_U)+50, Y_N=4, Y_U=20, Y_W=100$

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
N00m	N08m	N16m	N00m	N04m	N08m	N12m	N16m	N00m	N02m	N04m	N06m	N08m	N10m	N12m	N14m	N16m
0	125	250	0	125	250	375	500	0	125	250	375	500	625	750	875	1000

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*	b2=a1	0,00	c1=e02*b1	c2=b1	0,00	c4=0,...	c4=b2	0,00	c5=e46*	c6=b3	0,00	c7=e68*	c8=b3
							(1-b2)+b2						(b2-b1)+b1			(b3-b2)+b2			(1-b3)+b3	

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	0,800	1,000	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

Three, 5 and 9 colour steps, produced visual linearization

Black N00m – Black N16m = Magenta M $L^*_{TUBLOG,U}=[50/\log(5)] \log(Y/Y_U)+50, Y_N=4, Y_U=20, Y_W=100$

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
N00m	N08m	N16m	N00m	N04m	N08m	N12m	N16m	N00m	N02m	N04m	N06m	N08m	N10m	N12m	N14m	N16m

hej2-76, Test samples: 3, 5 and 9 colour steps, green=0,500, cyan=1,000, magenta=1,000, black=0,000

TUB-test chart hej2; separate grey samples for visual interval scaling, evaluation of the series N_M with 3, 5 and 9 steps, output $(rgb^*)^{1,0}$ & experimental; surround mean Grey $U=N08w$