

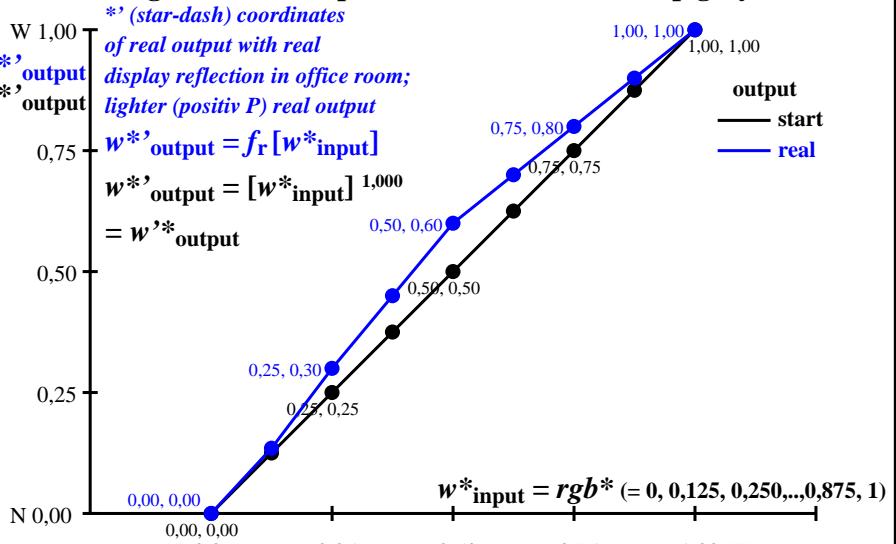


see similar files of the whole serie: <http://farbe.li.tu-berlin.de> or <http://color.li.tu-berlin.de>

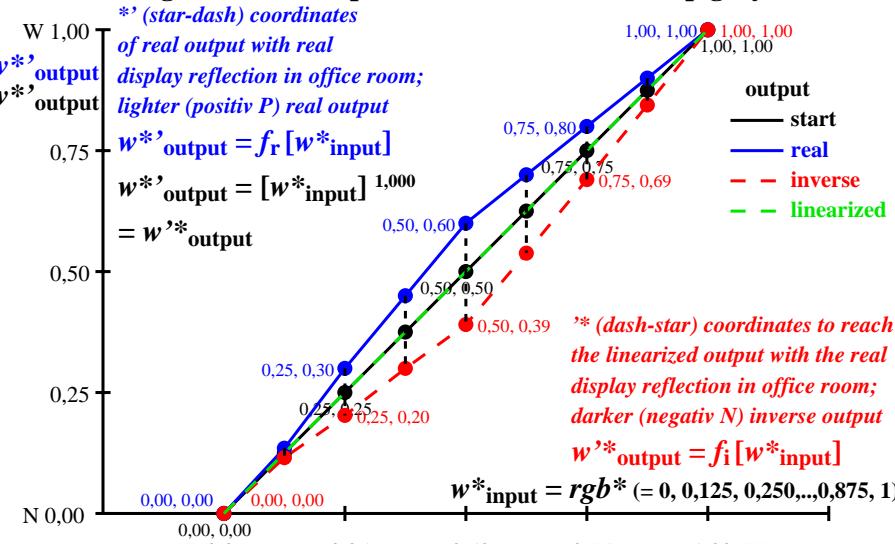
technical information: <http://farbe.li.tu-berlin.de> or <http://color.li.tu-berlin.de>

hel20-3n

Colour management for output linearization of a 9 step grey scale



Colour management for output linearization of a 9 step grey scale



hel21-3n

Three, 5 and 9 colour steps for visual evaluation

0,000	0,500	1,000	0,000	0,250	0,500	0,750	1,000
B00w	B08w	B16w	B00w	B04w	B08w	B12w	B16w
Three, 5 and 9 colour steps, numeric specification							
0,00	e08=0,...	1,00	0,00	e04=0,...	1,00	0,00	1,00
0,00	a1=e08	1,00	0,00	b1=e04*a1	b2=a1	e48=0,...	1,00

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
Blue B00w – Blue B16w = White W

0,000	0,125	0,250	0,375	0,500	0,625	0,750	0,875	1,000
B00w	B02w	B04w	B06w	B08w	B10w	B12w	B14w	B16w
0	12?	25?	37?	50?	62?	75?	87?	100
0,00	e02=0,...	1,00	0,00	c24=0,...	1,00	e46=0,...	1,00	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 calculation example

0,00	0,60	1,00	0,00	0,50	1,00	0,50	1,00
0,000	0,600	1,000	0,000	0,300	0,600	0,800	1,000
0,000	0,390	1,000	0,000	0,202	0,390	0,690	1,000

0,00	0,45	1,00	0,00	0,50	1,00	0,50	1,00
0,00	0,135	0,300	0,202	0,450	0,600	0,700	0,800
0,00	0,115	0,202	0,299	0,299	0,390	0,538	0,690
0,00	0,125	0,250	0,375	0,500	0,625	0,750	0,875

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
B00w	B08w	B16w	B00w	B04w	B08w	B12w	B16w
0,000	0,600	1,000	0,000	0,300	0,600	0,800	1,000
0,000	0,390	1,000	0,000	0,202	0,390	0,690	1,000

0,000	0,125	0,250	0,375	0,500	0,625	0,750	0,875	1,000
B00w	B02w	B04w	B06w	B08w	B10w	B12w	B14w	B16w
0,000	0,135	0,300	0,450	0,600	0,700	0,800	0,900	1,000
0,000	0,115	0,202	0,299	0,390	0,538	0,690	0,844	1,000

hel20-7n, Test samples: 3, 5 and 9 colour steps, greu=0,500, expu=1,000, expa=1,000, expi=1,000

TUB registration: 20241001-hel2/hel2l0na.txt.ps
application for evaluation and measurement of display or print output

TUB material: code=rha4ta

TUB-test chart hel2; separate grey samples for visual intervall scaling, evaluation of the series B_W with 3, 5 and 9 steps, output $(rgb^*)^{1,0}$ & experimental; surround mean Grey U=N08w