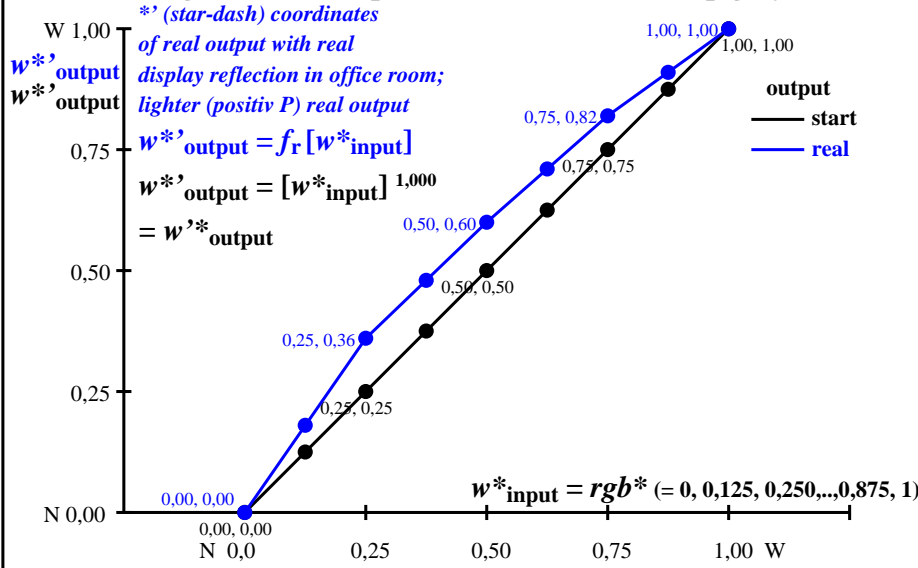
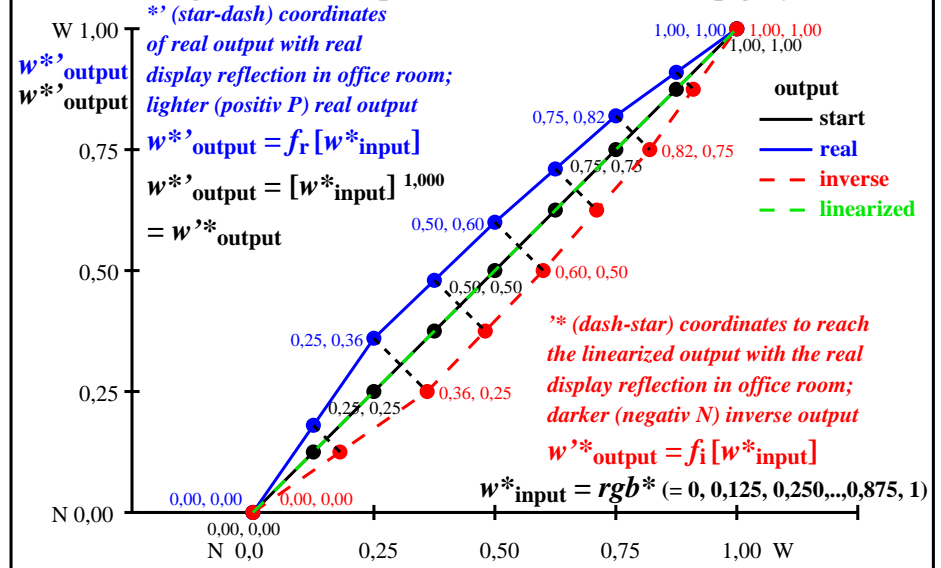


Colour management for output linearization of a 9 step grey scale



hee40-3n

Colour management for output linearization of a 9 step grey scale



hee41-3n

Three, 5 and 9 colour steps for visual evaluation

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

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

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
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 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	0,00 0,00	e02=0, .. c1=e02*b1	1,00 0,00	c2=b1	c24=0, .. c3=e24* (b2-b1)+b1	0,00 1,00	c4=b2	e46=0, .. c5=e46* (b3-b2)+b2	1,00 0,00	c6=b3	e68=0, .. c7=e68* (1-b3)+b3	1,00 1,00
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Three, 5 and 9 colour steps, numeric calculation example

0,00 0,000	0,60 0,600	1,00 1,000	0,00 0,000	0,60 0,360	1,00 0,600	0,55 0,820	1,00 1,000	0,00 0,000	0,50 0,180	1,00 0,360	0,50 0,480	0,00 0,600	0,50 0,710	1,00 0,820	0,50 0,910	1,00 1,000
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Three, 5 and 9 colour steps, produced visual linearization

0, 180, 360, 480, 600, 710, 820, 910, 1000
 Black N00w – Black N16w = White W

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

0,000	0,600	1,000	0,000	0,360	0,600	0,820	1,000	0,000	0,180	0,360	0,480	0,600	0,710	0,820	0,910	1,000
N00w	N08w	N16w	N00w	N04w	N08w	N12w	N16w	N00w	N02w	N04w	N06w	N08w	N10w	N12w	N14w	N16w

hee40-7n, Test samples: 3, 5 and 9 colour steps, greu=0,500, expu=1,000, expa=1,000, expi=1,000

TUB-test chart hee4; Adjacent grey samples for visual intervall scaling, evaluation of the series N–W with 3, 5 and 9 steps, output (rgb*)^{1,0} & experimental; surround mean Grey U=N08w

see similar files of the whole serie: <http://farbe.li.tu-berlin.de/hee4/hee4I0np.pdf> / .ps
 technical information: <http://farbe.li.tu-berlin.de> or <http://color.li.tu-berlin.de>

TUB registration: 20241001-hee4/hee4I0np.pdf / .ps
 application for evaluation and measurement of display or print output

TUB material: code=rh4ta