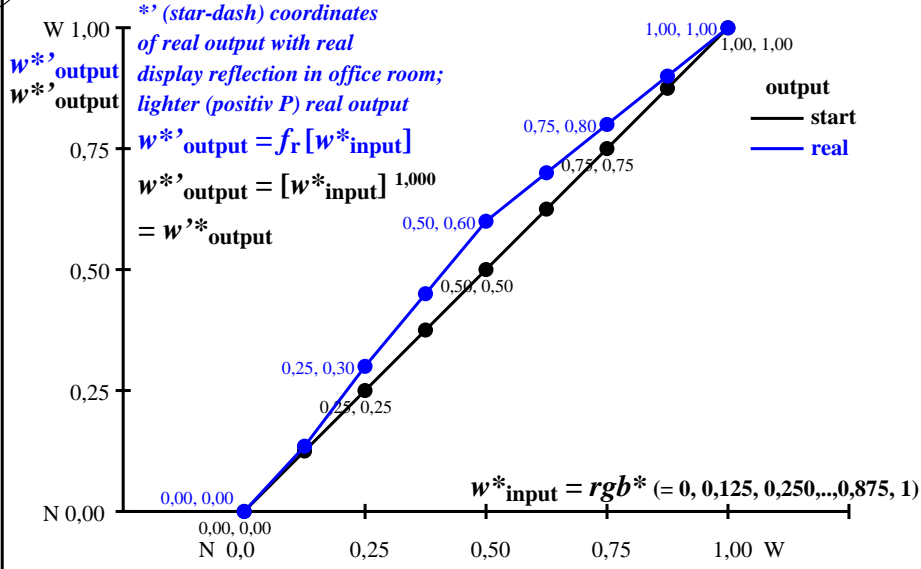
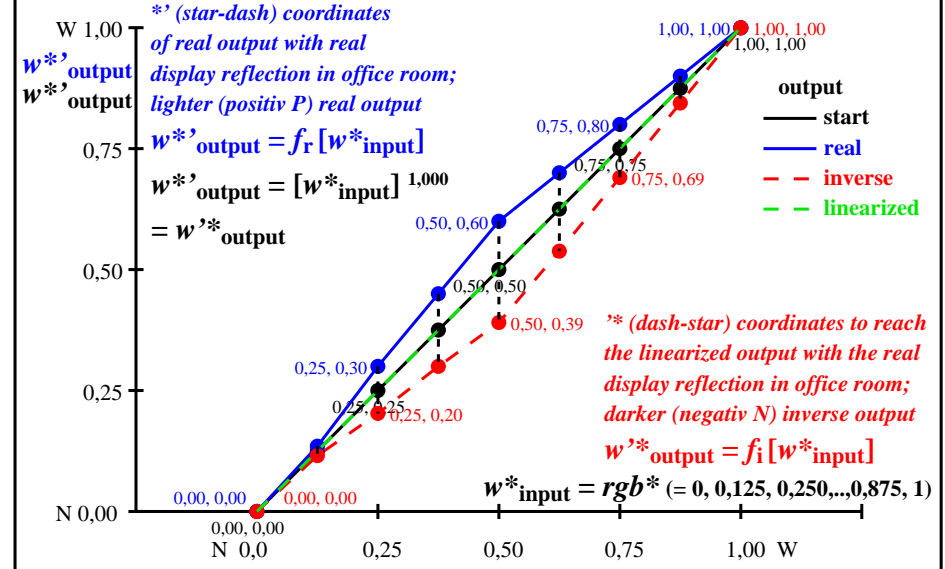


Colour management for output linearization of a 9 step grey scale



Colour management for output linearization of a 9 step grey scale



hem20-3n

hem21-3n

Three, 5 and 9 colour steps for visual evaluation s: 0, 125, 250, 375, 500, 625, 750, 875, 1000 $L^*_{TUBLOG,U} = [50/\log(5)] \log(Y/Y_U) + 50, Y_N=4, Y_U=20, Y_W=100$
 Magenta M00w – Magenta M16w = 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								
M00w	M08w	M16w	M00w	M04w	M08w	M12w	M16w	M00w	M02w	M04w	M06w	M08w	M10w	M12w	M14w	M16w

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 0,000	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	0,00 0,000 0,000	0,45 0,135 0,115	1,00 0,300 0,202	0,50 0,450 0,299	0,00 0,600 0,390	0,50 0,700 0,538	1,00 0,800 0,690	0,49 0,900 0,844	1,00 1,000 1,000
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Three, 5 and 9 colour steps, produced visual linearization i: 0, 115, 202, 299, 390, 538, 690, 844, 1000 $L^*_{TUBLOG,U} = [50/\log(5)] \log(Y/Y_U) + 50, Y_N=4, Y_U=20, Y_W=100$
 Magenta M00w – Magenta M16w = 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								
M00w	M08w	M16w	M00w	M04w	M08w	M12w	M16w	M00w	M02w	M04w	M06w	M08w	M10w	M12w	M14w	M16w

hem20-7n, Test samples: 3, 5 and 9 colour steps, greu=0,500, expu=1,000, expa=1,000, expi=1,000

TUB-test chart hem2; separate grey samples for visual intervall scaling, evaluation of the series M_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/hems.htm>
 technical information: <http://farbe.li.tu-berlin.de> or <http://color.li.tu-berlin.de>

TUB registration: 20241001-hem2/hem210np.pdf / .ps
 application for evaluation and measurement of display or print output

TUB material: code=rh4ta