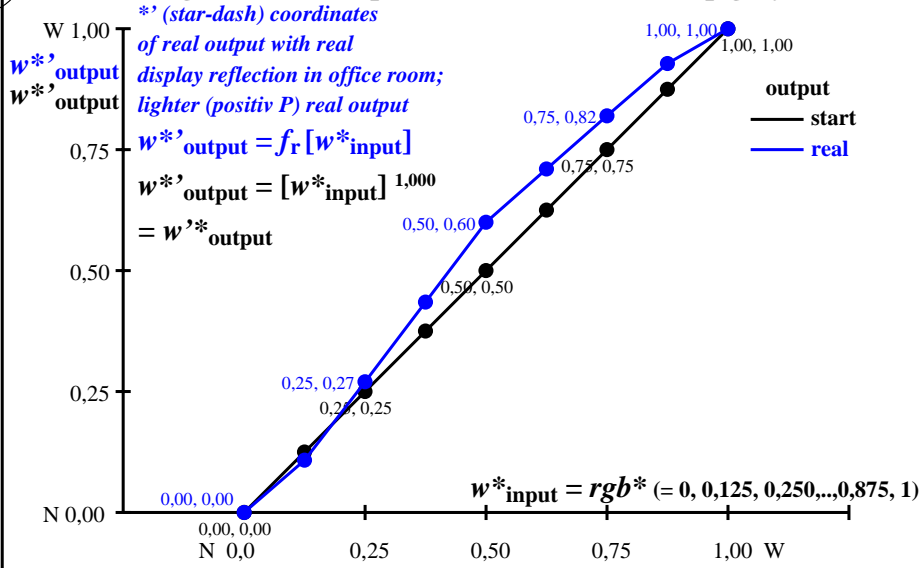
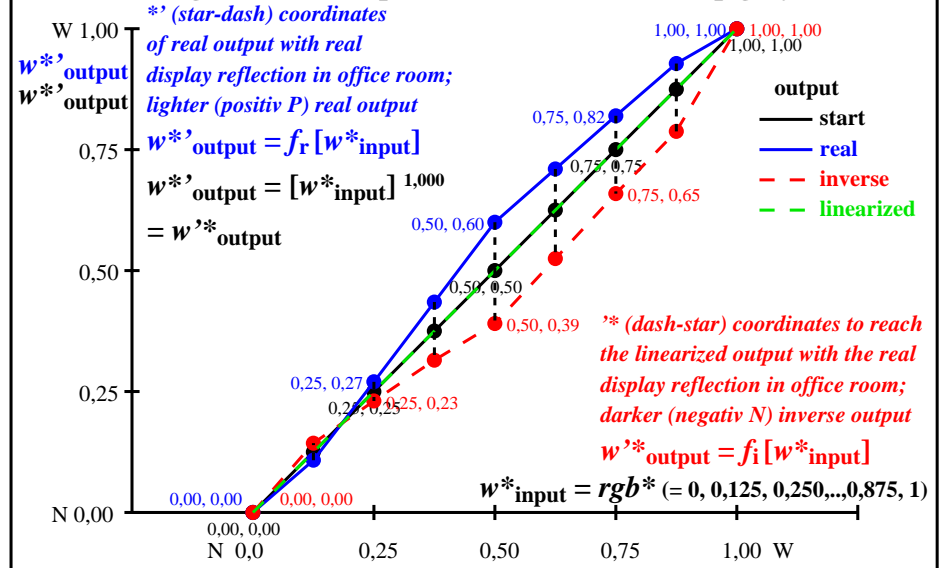


### Colour management for output linearization of a 9 step grey scale



### Colour management for output linearization of a 9 step grey scale



### 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



### 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
--------------	---------------------	--------------	--------------	------------------------	-----------------------	-----------------------------------	--------------	--------------	------------------------	-----------------------	------------------------------------	-----------------------	------------------------------------	-----------------------	-----------------------------------	--------------

### 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	0,45 0,270 0,230	1,00 0,600 0,390	0,55 0,820 0,658	1,00 1,000 1,000	0,00 0,000 0,000	0,40 0,108 0,143	1,00 0,270 0,230	0,49 0,435 0,314	0,00 1,00 0,390	0,50 0,710 0,524	1,00 0,820 0,658	0,60 0,928 0,787	1,00 1,000 1,000
------------------------	------------------------	------------------------	------------------------	------------------------	------------------------	------------------------	------------------------	------------------------	------------------------	------------------------	------------------------	-----------------------	------------------------	------------------------	------------------------	------------------------

### Three, 5 and 9 colour steps, produced visual linearization

r: 0, 108, 270, 435, 600, 710, 820, 928, 1000  $i: 0, 143, 230, 314, 390, 524, 658, 787, 1000$   $L^*_{TUBLOG,U} = [50/\log(5)] \log(Y/Y_U) + 50$ ,  $Y_N=4$ ,  $Y_U=20$ ,  $Y_W=100$   
 Magenta M00w – Magenta M16w = White W



hem40-7n, Test samples: 3, 5 and 9 colour steps, greu=0,500, expu=1,000, expa=1,000, expi=1,000

TUB-test chart hem4; 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-hem4/hem410np.pdf / .ps  
 application for evaluation and measurement of display or print output

TUB material: code=rh4ta