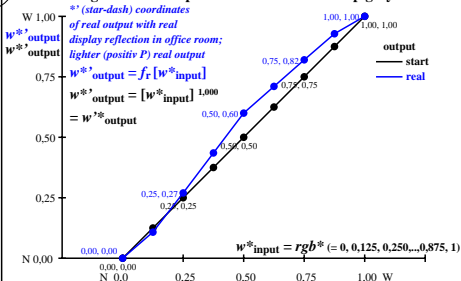
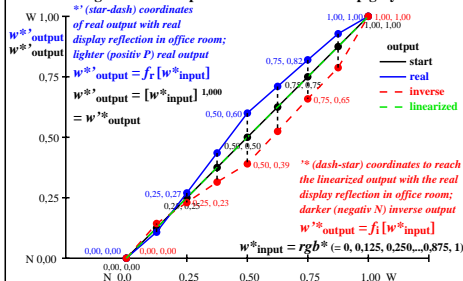


Colour management for output linearization of a 9 step grey scale



Colour management for output linearization of a 9 step grey scale



hel90-3n

hel91-3n

Three, 5 and 9 colour steps for visual evaluation s: 0, 125, 250, 375, 500, 625, 750, 875, 1000
 Cyan C00w – Cyan C16w = White W $L^*_{TUBLOG,U}=[50/\log(5)] \log(Y/Y_U)+50, Y_N=4, Y_U=20, Y_W=100$



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 | e46=0, .. 1,00 | 0,00 | e68=0, .. 1,00 |
| 0,00 | a1=e08 | 1,00 | b1=e04*a1 | 0,00 | b3=e48* | 0,00 | c1=e02*b1 | 0,00 | c5=e46* | 0,00 | c7=e68* |
| | | 1,00 | b2=a1 | 0,00 | (1-b2)+b2 | 1,00 | c2=b1 | 0,00 | (b3-b2)+b2 | 1,00 | (1-b3)+b3 |

Three, 5 and 9 colour steps, numeric calculation example

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

r: 0, 108, 270, 435, 600, 710, 820, 928, 1000
 i: 0, 143, 230, 314, 390, 524, 658, 787, 1000

Three, 5 and 9 colour steps, produced visual linearization $L^*_{TUBLOG,U}=[50/\log(5)] \log(Y/Y_U)+50, Y_N=4, Y_U=20, Y_W=100$



TUB-test chart hel9; separate grey samples for visual intervall scaling, evaluation of the series C_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/hel9/hel9I0nI.txt / .ps
 technical information: http://farbe.li.tu-berlin.de or http://color.li.tu-berlin.de

TUB registration: 20241001-hel9/hel9I0nI.txt / .ps
 application for evaluation and measurement of display or print output
 TUB material: code=thata