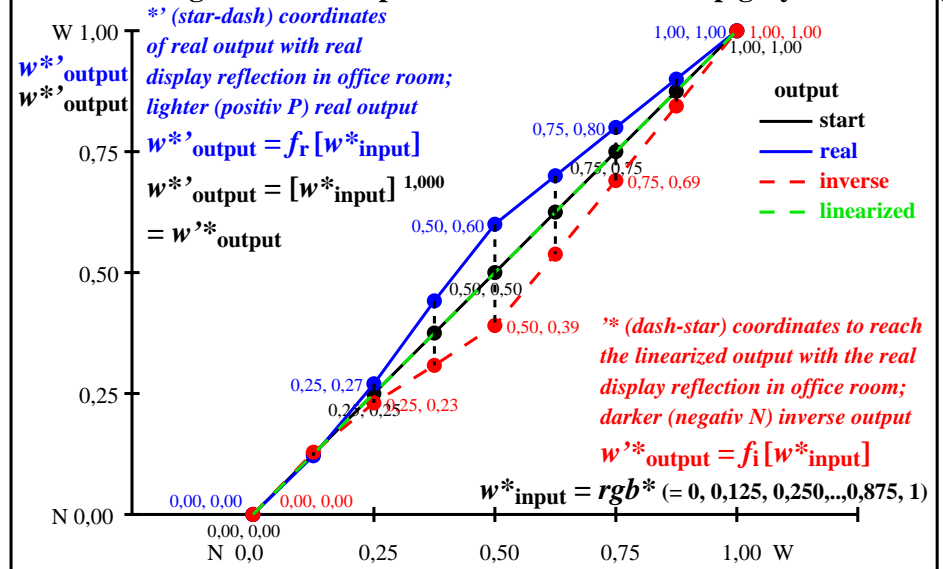


Colour management for output linearization of a 9 step grey scale



Colour management for output linearization of a 9 step grey scale



hef20-3n

hef21-3n

Three, 5 and 9 colour steps for visual evaluation

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

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



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 | 0,00 0,00 | e48=0, .. b3=e48*(1-b2)+b2 | 1,00 1,00 | 0,00 0,00 | e02=0, .. c1=e02*b1 | 1,00 0,00 | 0,00 0,00 | c24=0, .. c3=e24*(b2-b1)+b1 | 0,00 1,00 | e46=0, .. c5=e46*(b3-b2)+b2 | 1,00 0,00 | 0,00 0,00 | e68=0, .. c7=e68*(1-b3)+b3 | 1,00 1,00 |
|--------------|---------------------|--------------|--------------|------------------------|--------------|--------------|-------------------------------|--------------|--------------|------------------------|--------------|--------------|--------------------------------|--------------|--------------------------------|--------------|--------------|-------------------------------|--------------|

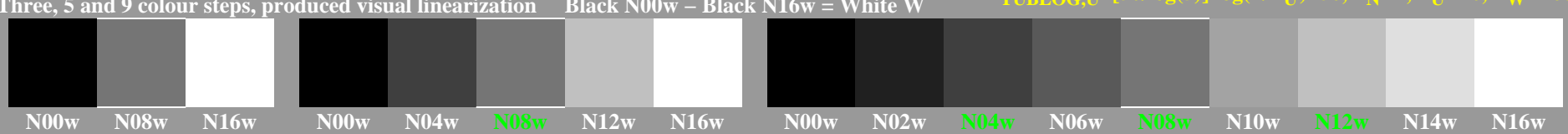
Three, 5 and 9 colour steps, numeric calculation example

| | | | | | | | | | | | | | | | | |
|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| 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 | 0,00 0,760 0,739 | 1,00 1,000 1,000 | 0,00 0,000 0,000 | 0,45 0,121 0,128 | 1,00 0,270 0,230 | 0,00 0,441 0,308 | 0,00 0,600 0,390 | 0,50 0,680 0,563 | 1,00 0,760 0,739 | 0,00 0,880 0,869 | 1,00 1,000 1,000 |
|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|

Three, 5 and 9 colour steps, produced visual linearization

i: 0, 128, 230, 308, 390, 563, 739, 869, 1000
 Black N00w – Black N16w = White W

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



hef20-7n, Test samples: 3, 5 and 9 colour steps, greu=0,500, expu=1,000, expa=1,000, expi=1,000