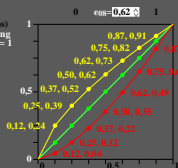


9 step series with grey sample and surround too dark, adjust both with a value larger "0.50"

adjust visual equal difference for Grey U between White W and Black N



Output (9 steps)
adjusted spacing
 $0 \leq r_{gb}^s \leq 1$



go to next image 2

one experimental value:
 e_{08}

equally spaced
 $0 \leq r_{gb}^s \leq 1$
Input (9 steps)

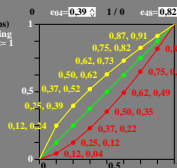
heq91-5a, image 1, produce equal visual difference between Black N – White W

9 step series with grey sample and surround appears too dark, all will be lighter below

adjust visual equal difference for two of 5 steps



Output (9 steps)
adjusted spacing
 $0 \leq r_{gb}^s \leq 1$



go to next image 3

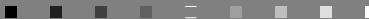
two experimental values:
 e_{04} & e_{48}

equally spaced
 $0 \leq r_{gb}^s \leq 1$
Input (9 steps)

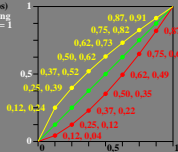
heq91-6a, image 2, produce equal visual difference between two of five steps

9 step series with grey sample and surround appears too dark, all will be lighter below

adjust visual equal difference for four of 9 steps



0 $e_{02}=0.24$ 1/0 $e_{24}=0.52$ 1/0 $e_{46}=0.73$ 1/0 $e_{68}=0.91$ 1



go to next image 4

four experimental values:
 e_{02} , e_{24} , e_{46} , e_{68}

save 7 data above as text

heq91-7a, image 3, produce equal visual difference between four of nine steps

heq91-7n

9 step series with grey sample and surround appears too dark, all will be lighter below

9 step series based on all visual adjustments used for output linearization



calculation with visual experimental (e) data adjusted above

$a_1=e_{08}$, $b_1=e_{04} \cdot a_1$, $b_2=e_{48}(1-b_1)$, $c_2=b_1$, $c_4=b_2$, $c_6=b_3$
 $c_1=e_{02} \cdot b_1$, $c_3=e_{24}(b_1-b_2)+b_1$, $c_5=e_{46}(b_1-b_2)+b_2$, $c_7=e_{68}(1-b_3)+b_3$

save 7 data above as text

save 9 data below as text

± 0.04 ± 0.04 ± 0.04 ± 0.04 ± 0.04 ± 0.04 ± 0.04 ± 0.04 ± 0.04



grey example
difference visible?

0.25 ± 0.06 ± 0.00
adjust threshold
no change

adjust and proof threshold of
the linearized output

restart with image 1

heq91-8a, image 4, adjust visual threshold (± 0.04) of 9 steps; all equal?