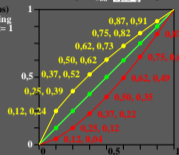


9 step series with grey sample and surround too dark, adjust both with a value larger "0.50"

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

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



go to next image 2
one experimental value:
 $e_{08}=0.62$

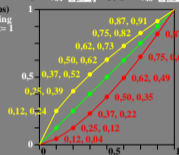
equally spaced
 $0 \leq r_{gb}^s \text{ in} \leq 1$
Input (9 steps)

heq90-1a, 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
 $0 \leq r_{gb}^s \text{ out} \leq 1$



go to next image 3
two experimental values:
 $e_{04}=e_{48}$

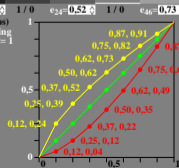
equally spaced
 $0 \leq r_{gb}^s \text{ in} \leq 1$
Input (9 steps)

heq90-2a, 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

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



go to next image 4
four experimental values:
 $e_{02}, e_{24}, e_{46}, e_{68}$
save 7 data above as text

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

heq90-3a, image 3, produce equal visual difference from four of nine steps

heq90-3n

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

0,00 $c_1=0,12$ $c_2=0,25$ $c_3=0,37$ $c_4=0,50$ $c_5=0,62$ $c_6=0,75$ $c_7=0,87$ 1,00

calculation with visual experimental (e) data adjusted above

$a_1=e_{08}, b_1=e_{04} \cdot a_1, b_2=e_{48}(1-b_2)+b_2, c_2=b_1, c_4=b_2, c_6=b_3$

$c_1=e_{02} \cdot b_1, c_3=e_{24}(b_2-b_2)+b_1, c_5=e_{46}(b_1-b_2)+b_2, c_7=e_{68}(1-b_3)+b_3$

save 7 data above as text

save 9 data below as text

$+0,04$ $+0,04$ $+0,04$ $+0,04$ $+0,04$ $+0,04$ $+0,04$ $+0,04$ $+0,04$ $+0,04$ $+0,04$

0,00 $c_1=0,12$ $c_2=0,25$ $c_3=0,37$ $c_4=0,50$ $c_5=0,62$ $c_6=0,75$ $c_7=0,87$ 1,00

grey example difference visible? $0,25 \pm 0,06$ adjust threshold $0,25 \pm 0,00$ no change

adjust and proof threshold of the linearized output

restart with image 1

heq90-4a, image 4, adjust visual threshold (+0,04?) of 9 steps; all equal?