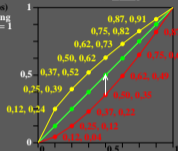


9 step series with grey sample and surround too dark, a just both with a value larger "0.50"

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



Output (9 steps)
adjusted spacing
 $0 < r_{gb}^*_{out} < 1$



go to next image 2

one experimental value:
 $e_{05}=0,62$
real gamma value:
 $\gamma_{re} = \log [0,50] / \log [e_{05}] = 1,500$
inverse gamma value:
 $\gamma_{in} = \log [e_{05}] / \log [0,50] = 0,666$

equally spaced
 $0 < r_{gb}^*_{in} < 1$
Input (9 steps)

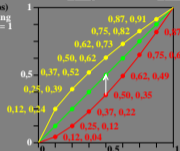
hez70-5a, image 1, produce equal visual difference between Black N – White W

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
 $0 < r_{gb}^*_{out} < 1$



go to next image 3

two experimental values:
 $e_{04}=e_{48}$

equally spaced
 $0 < r_{gb}^*_{in} < 1$
Input (9 steps)

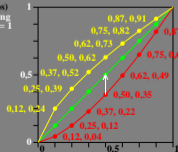
hez70-6a, image 2, produce equal visual difference between two of five steps

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



Output (9 steps)
adjusted spacing
 $0 < r_{gb}^*_{out} < 1$



go to next image 4

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

equally spaced
 $0 < r_{gb}^*_{in} < 1$
Input (9 steps)

hez70-7a, image 3, produce equal visual difference between four of nine steps

hez70-7n

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

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

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 adjust threshold
0,25 +0,00 no change

adjust and proof threshold of
the linearized output

restart with image 1

hez70-8a, image 4, adjust visual threshold (+0,04?) of 9 steps; all equal?