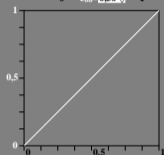


A choice of a value different "0.50" changes the grey sample and surround. Beginners often have difficulties to choose an appropriate value. Therefore it is recommended for beginners to proceed with image 2. After a restart of the experiment, a value different "0.50" may be used.

adjust visual equal difference for one of 3 steps



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



go to next image 2

one experimental value:
 ϵ_{08}

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

her70-1a, image 1, produce equal visual difference between Black N – Red Rn – Red R

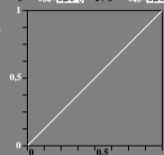
9 step series based only on the visual adjustment of image 1 with value "0.50" or different



adjust visual equal difference for two of 5 steps



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



go to next image 3

two experimental values:
 $\epsilon_{04}, \epsilon_{48}$

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

her70-2a, image 2, produce equal visual difference between two of five steps

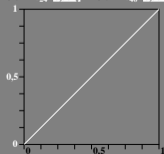
9 step series based only on the visual adjustment of image 1 with value "0.50" or different



adjust visual equal difference for four of 9 steps



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



go to next image 4

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

save 7 data above as text

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

her70-3a, image 3, produce equal visual difference between four of nine steps

her70-3n

9 step series based only on the visual adjustment of image 1 with value "0.50" or different



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



0,00 $\epsilon_1=0,12$ $\epsilon_2=0,25$ $\epsilon_3=0,37$ $\epsilon_4=0,50$ $\epsilon_5=0,62$ $\epsilon_6=0,75$ $\epsilon_7=0,87$ 1,00

calculation with visual experimental (e) data adjusted above

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

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

save 7 data above as text

save 9 data below as text

$\pm 0,04$ $\pm 0,04$ $\pm 0,04$ $\pm 0,04$ $\pm 0,04$ $\pm 0,04$ $\pm 0,04$ $\pm 0,04$ $\pm 0,04$



0,00 $\epsilon_1=0,12$ $\epsilon_2=0,25$ $\epsilon_3=0,37$ $\epsilon_4=0,50$ $\epsilon_5=0,62$ $\epsilon_6=0,75$ $\epsilon_7=0,87$ 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

her70-4a, image 4, adjust visual threshold ($\pm 0,04$) of 9 steps; all equal?