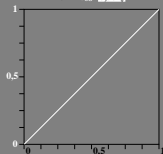


A choose of a value different "0.50" changes the grey sample and surround.  
 Beginners often have difficulties to choose on an appropriate value.  
 Therefore it is recommended for beginners to proceed with image 2.  
 After a restart of the experiment, a value different "0.50" may be used.

adjust visual equal difference for one of 3 steps



Output (9 steps)  
 adjusted spacing  
 $0 \leq rgb^s_{out} \leq 1$



go to next image 2

one experimental value:  
 $e_{08}$

equally spaced  
 $0 \leq rgb^s_{in} \leq 1$   
 Input (9 steps)

heq61-5a, image 1, produce equal visual difference between Yellow Y – Yellow Yw – White W

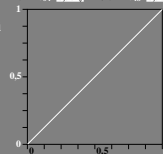
9 step series based only on the visual adjustment of image 1 with value "0.50" or different



adjust visual equal difference for two of 5 steps



Output (9 steps)  
 adjusted spacing  
 $0 \leq rgb^s_{out} \leq 1$



go to next image 3

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

equally spaced  
 $0 \leq rgb^s_{in} \leq 1$   
 Input (9 steps)

heq61-6a, 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

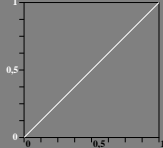


adjust visual equal difference for four of 9 steps



0  $e_{02}=0.50$  1/0  $e_{24}=0.50$  1/0  $e_{46}=0.50$  1/0  $e_{68}=0.50$  1

Output (9 steps)  
 adjusted spacing  
 $0 \leq rgb^s_{out} \leq 1$



go to next image 4

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

save 7 data above as text

equally spaced  
 $0 \leq rgb^s_{in} \leq 1$   
 Input (9 steps)

heq61-7a, image 3, produce equal visual difference between four of nine steps

heq61-7n

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

calculation with visual experimental (e) data adjusted above

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

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

save 7 data above as text

save 9 data below as text

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



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

heq61-8a, image 4, adjust visual threshold (+0,04?) of 9 steps; all equal?