

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  
 $0 < r_{gb}^{in} < 1$

go to next image 2

one experimental value:  
 $e_{58}$

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

heq30-1a, image 1, produce equal visual difference between Red R – Red Rw – 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  
 $0 < r_{gb}^{in} < 1$

go to next image 3

two experimental values:  
 $e_{64}, e_{48}$

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

heq30-2a, image 2, produce equal visual difference between two of five steps

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

go to next image 2

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

heq31-2a, 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  
 $0 < r_{gb}^{in} < 1$

go to next image 4

four experimental values:  
 $e_{62}, e_{24}, e_{46}, e_{68}$

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

save 7 data above as text  
save 9 data below as text

heq30-3a, image 3, produce equal visual difference between four of nine steps

heq30-3n

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

calculation with visual experimental (c) data adjusted above  
 $a_1=e_{68}, b_1=e_{64} \cdot a_1, b_2=e_{64}(1-b_2)+b_2, c_2=b_1, c_3=b_2, c_4=b_1$   
 $c_1=e_{62} \cdot b_1, c_2=e_{24}(b_2-b_1), c_3=e_{46}(b_2-b_1), c_4=e_{68}(1-b_1)+b_1$

save 7 data above as text  
save 9 data below as text

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

heq30-4a, image 4, adjust visual threshold (+0.047) of 9 steps; all equal?

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  
 $0 < r_{gb}^{in} < 1$

go to next image 4

four experimental values:  
 $e_{62}, e_{24}, e_{46}, e_{68}$

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

save 7 data above as text

heq31-3a, image 3, produce equal visual difference between four of nine steps

heq31-3n

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

calculation with visual experimental (c) data adjusted above  
 $a_1=e_{68}, b_1=e_{64} \cdot a_1, b_2=e_{64}(1-b_2)+b_2, c_2=b_1, c_3=b_2, c_4=b_1$   
 $c_1=e_{62} \cdot b_1, c_2=e_{24}(b_2-b_1), c_3=e_{46}(b_2-b_1), c_4=e_{68}(1-b_1)+b_1$

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heq31-4a, image 4, adjust visual threshold (+0.047) of 9 steps; all equal?

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

go to next image 2

one experimental value:  
 $e_{58}$

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

heq30-5a, image 1, produce equal visual difference between Red R – Red Rw – 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  
 $0 < r_{gb}^{in} < 1$

go to next image 3

two experimental values:  
 $e_{64}, e_{48}$

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

heq30-6a, image 2, produce equal visual difference between two of five steps

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adjust visual equal difference for one of 3 steps

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

go to next image 2

one experimental value:  
 $e_{58}$

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

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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  
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go to next image 3

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equally spaced  
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Input (9 steps)

heq31-6a, 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

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

go to next image 4

four experimental values:  
 $e_{62}, e_{24}, e_{46}, e_{68}$

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

save 7 data above as text

heq30-7a, image 3, produce equal visual difference between four of nine steps

heq30-7n

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

calculation with visual experimental (c) data adjusted above  
 $a_1=e_{68}, b_1=e_{64} \cdot a_1, b_2=e_{64}(1-b_2)+b_2, c_2=b_1, c_3=b_2, c_4=b_1$   
 $c_1=e_{62} \cdot b_1, c_2=e_{24}(b_2-b_1), c_3=e_{46}(b_2-b_1), c_4=e_{68}(1-b_1)+b_1$

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save 9 data below as text

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

heq30-8a, image 4, adjust visual threshold (+0.047) of 9 steps; all equal?

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  
 $0 < r_{gb}^{in} < 1$

go to next image 4

four experimental values:  
 $e_{62}, e_{24}, e_{46}, e_{68}$

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

save 7 data above as text

heq31-7a, image 3, produce equal visual difference between four of nine steps

heq31-7n

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

calculation with visual experimental (c) data adjusted above  
 $a_1=e_{68}, b_1=e_{64} \cdot a_1, b_2=e_{64}(1-b_2)+b_2, c_2=b_1, c_3=b_2, c_4=b_1$   
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adjust and proof threshold of the linearized output  
restart with image 1

heq31-8a, image 4, adjust visual threshold (+0.047) of 9 steps; all equal?