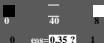9 step series, sample and surround mean grey U40 is too dark, evaluate scaling of U40 e_{08}<0.50.

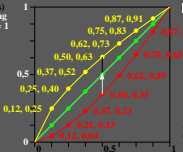evaluate the scaling for the presented Grey U40 between White W and Black N

0   10   20   30   40   50   60   70   8

The gamma value γ_{inv}=1.500
of the softwares *GammaAdjuster*
reaches equal differences
and corresponds to e_{08}=0.35.

$\square$ $\square$ $\square$
40

0   e_{08}= 0.35 ?   1

go to next image 2

Output (9 steps)
adjusted spacing
0 <= $rgb*_{out}$ <= 1

0.87, 0.91
0.75, 0.83
0.62, 0.73
0.50, 0.63
0.37, 0.52
0.25, 0.40
0.12, 0.25

one experimental value:
e_{08}=0.35
real gamma value:
γ_{ref}= log [0.50] / log [e_{08}]=0.666
inverse gamma value:
γ_{inv}= log [e_{08}] / log [0.50]=1.500
The software *GammaAdjuster*
reaches equal differences for
γ_{inv}=1.500
equally spaced
0 <= $rgb*_{in}$ <= 1

surround Grey: U40

0.5

0   0.5   1

Input (9 steps)

ieb01–5a, image 1, evaluate (e) visual scaling between Black N – White W, γ_{rel}=0,67