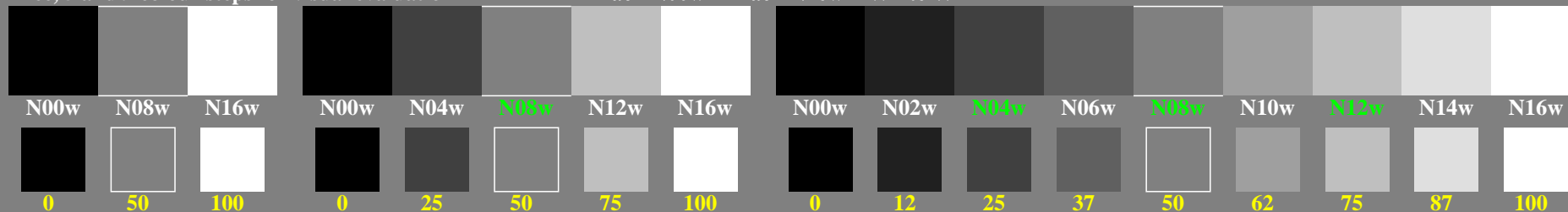


<http://farbe.li.tu-berlin.de/geo3/geo310np.pdf> / .ps; only vector graphic VG; start output  
 see separate images of this page: <http://farbe.li.tu-berlin.de/geo3/geo3.htm>

Three, 5 and 9 colour steps for visual evaluation

0, 125, 250, 375, 500, 625, 750, 875, 1000  
 Black N00w – Black N16w = White W

$$L^*_{TUBLOG,U} = 50 \log(Y / 5Y_U) + 50, Y_N=4, Y_U=20, Y_W=100$$



geo30-1n, Test samples: 3, 5 and 9 colour steps, greu=0.500, expu=1.000, expa=1.000

Three, 5 and 9 colour steps, numeric calculation example

0, 125, 250, 375, 500, 625, 750, 875, 1000  
 Black N00w – Black N16w = White W

$$L^*_{TUBLOG,U} = 50 \log(Y / 5Y_U) + 50, Y_N=4, Y_U=20, Y_W=100$$

|              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0,00<br>0,00 | 0,50<br>0,50 | 1,00<br>1,00 | 0,00<br>0,00 | 0,50<br>0,25 | 1,00<br>0,50 | 0,50<br>0,75 | 1,00<br>1,00 | 0,00<br>0,00 | 0,50<br>0,12 | 1,00<br>0,25 | 0,50<br>0,37 | 0,00<br>1,00 | 0,50<br>0,62 | 1,00<br>0,75 | 0,50<br>0,87 | 1,00<br>1,00 |
| N00w         | N08w         | N16w         | N00w         | N04w         | N08w         | N12w         | N16w         | N00w         | N02w         | N04w         | N06w         | N08w         | N10w         | N12w         | N14w         | N16w         |
| 0,00<br>0,00 | 0,50<br>0,50 | 1,00<br>1,00 | 0,00<br>0,00 | 0,50<br>0,25 | 1,00<br>0,50 | 0,50<br>0,75 | 1,00<br>1,00 | 0,00<br>0,00 | 0,50<br>0,12 | 1,00<br>0,25 | 0,50<br>0,37 | 0,00<br>1,00 | 0,50<br>0,62 | 1,00<br>0,75 | 0,50<br>0,87 | 1,00<br>1,00 |
| 0            | 50           | 100          | 0            | 25           | 50           | 75           | 100          | 0            | 12           | 25           | 37           | 50           | 62           | 75           | 87           | 100          |

geo30-3n, Test samples: 3, 5 and 9 colour steps, greu=0.500, expu=1.000, expa=1.000

Three, 5 and 9 colour steps for visual evaluation

0, 15, 62, 140, 250, 390, 562, 765, 1000  
 Black N00w – Black N16w = White W

$$L^*_{TUBLOG,U} = 50 \log(Y / 5Y_U) + 50, Y_N=4, Y_U=20, Y_W=100$$



geo30-5n, Test samples: 3, 5 and 9 colour steps, greu=0.500, expu=2.000, expa=2.000

Three, 5 and 9 colour steps, numeric calculation example

0, 125, 250, 375, 500, 625, 750, 875, 1000  
 Black N00w – Black N16w = White W

$$L^*_{TUBLOG,U} = 50 \log(Y / 5Y_U) + 50, Y_N=4, Y_U=20, Y_W=100$$

|              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0,00<br>0,00 | 0,50<br>0,50 | 1,00<br>1,00 | 0,00<br>0,00 | 0,50<br>0,25 | 1,00<br>0,50 | 0,50<br>0,75 | 1,00<br>1,00 | 0,00<br>0,00 | 0,50<br>0,12 | 1,00<br>0,25 | 0,50<br>0,37 | 0,00<br>1,00 | 0,50<br>0,62 | 1,00<br>0,75 | 0,50<br>0,87 | 1,00<br>1,00 |
| N00w         | N08w         | N16w         | N00w         | N04w         | N08w         | N12w         | N16w         | N00w         | N02w         | N04w         | N06w         | N08w         | N10w         | N12w         | N14w         | N16w         |
| 0,00<br>0,00 | 0,50<br>0,50 | 1,00<br>1,00 | 0,00<br>0,00 | 0,50<br>0,25 | 1,00<br>0,50 | 0,50<br>0,75 | 1,00<br>1,00 | 0,00<br>0,00 | 0,50<br>0,12 | 1,00<br>0,25 | 0,50<br>0,37 | 0,00<br>1,00 | 0,50<br>0,62 | 1,00<br>0,75 | 0,50<br>0,87 | 1,00<br>1,00 |
| 0            | 50           | 100          | 0            | 25           | 50           | 75           | 100          | 0            | 12           | 25           | 37           | 50           | 62           | 75           | 87           | 100          |

geo30-7n, Test samples: 3, 5 and 9 colour steps, greu=0.500, expu=1.000, expa=1.000

TUB-test chart geo3; File-(F)-Linearization code *IMR-0000F* and Gamma (71 lines) in four files  
 inverse Gamma values 1 and 0,5 of the series N–W with 3, 5 and 9 steps; evaluation linear

see similar files of the whole serie: <http://farbe.li.tu-berlin.de/geos.htm>  
 technical information: <http://farbe.li.tu-berlin.de> or <http://color.li.tu-berlin.de>

TUB registration: 20240701-geo3/geo310np.pdf / .ps  
 application for evaluation and measurement of display or print output

TUB material: code=rh4ta