

$XZ_{Y_{10}}=94.81, 100.0, 107.33 \quad L_{Y_{10}}=60 \log(f(Y_{10,ann})) \quad Y_{10,ann}=[Y_{10}-50]/50$

$A_{2,10} = 2.5 (a_{2,10} - a_{2,20}) Y_{10}$
 $B_{2,10} = 2.5 B_1 (b_{2,10} - b_{2,20}) Y_{10}$
 $a_{2,10} = a_{20} (1 + (x_{10} - x_*) / y_{10})$
 $b_{2,10} = b_{20} (z_{10} / y_{10})$
 $a_{20} = 1, b_{20} = -0.4$
 $x_* = 0.110, B_1 = 0.800$
 $C_{AB,2,10} = [A_{2,10} + B_{2,10}]^{2/12}$
6 Oswald-Farben (o)

von maximalem (m) $C_{AB,2,10}$ im
 linearen Farbraum $(C_{AB,2,10}^* Y_{10})$

Lichtart D65, $Y_{W,10}=100, Y_{N,10}=50$

Name Bereich $X_{10}, Y_{10}, Z_{10}, x_{10}, y_{10}, z_{10}, x_*, y_*, z_*$
 X_1 407.75 98.09 58.58 53.77 0.3598 0.4304 994.4
 Y_1 487.75 85.93 95.57 57.07 0.296 0.4217 566.461
 Z_1 487.561 56.0 80.56 107.30 2.509 0.3185 482.993
 x_1 440.748 56.54 73.21 104.09 0.255 0.251 461.566
 y_1 561.487 80.28 73.85 104.09 0.3265 0.2795 529.526
 z_1 380.775 94.81 107.33 0.3137 0.3309 100%
 x_* 380.775 47.4 50.0 53.66 0.3137 0.3309 50
 z_* 380.775 17.06 18.0 19.32 0.3137 0.3309 18%

$f(Y_{10,ann}) = \pm[1+10|Y_{10,ann}|^n]$
n nähert sich 1 für:
 1. abnehmendem Kontrast C
 2. aneinandergrenzende / separate Farben.

Parameter:
 Y_{10} & Name
 Lichtart D65
 $Y_{W,10}=100, Y_{N,10}=50$

$XZ_{Y_{10}}=96.72, 99.99, 81.41 \quad L_{Y_{10}}=60 \log(f(Y_{10,ann})) \quad Y_{10,ann}=[Y_{10}-50]/50$

$A_{2,10} = 2.5 (a_{2,10} - a_{2,20}) Y_{10}$
 $B_{2,10} = 2.5 B_1 (b_{2,10} - b_{2,20}) Y_{10}$
 $a_{2,10} = a_{20} (1 + (x_{10} - x_*) / y_{10})$
 $b_{2,10} = b_{20} (z_{10} / y_{10})$
 $a_{20} = 1, b_{20} = -0.4$
 $x_* = 0.110, B_1 = 1.000$
 $C_{AB,2,10} = [A_{2,10} + B_{2,10}]^{2/12}$
6 Oswald-Farben (o)

von maximalem (m) $C_{AB,2,10}$ im
 linearen Farbraum $(C_{AB,2,10}^* Y_{10})$

Lichtart D50, $Y_{W,10}=100, Y_{N,10}=50$

Name Bereich $X_{10}, Y_{10}, Z_{10}, x_{10}, y_{10}, z_{10}, x_*, y_*, z_*$
 X_1 400.75 95.15 96.38 43.46 0.3919 0.419 568.643
 Y_1 490.75 85.78 93.40 54.34 0.3251 0.428 531.531
 Z_1 380.565 63.09 79.06 81.41 0.2847 0.3523 484.994
 x_1 400.489 60.45 63.76 78.77 0.2918 0.2865 461.566
 y_1 565.449 80.75 74.75 78.77 0.3642 0.3095 531.531
 z_1 380.775 96.72 99.99 81.41 0.3477 0.3595 100%
 x_* 380.775 47.46 49.99 40.7 0.3477 0.3595 50
 z_* 380.775 17.41 17.99 14.65 0.3477 0.3595 18%

$f(Y_{10,ann}) = \pm[1+10|Y_{10,ann}|^n]$
n nähert sich 1 für:
 1. abnehmendem Kontrast C
 2. aneinandergrenzende / separate Farben.

Parameter:
 Y_{10} & Name
 Lichtart D50
 $Y_{W,10}=100, Y_{N,10}=50$

$XZ_{Y_{10}}=101.75, 100.0, 64.44 \quad L_{Y_{10}}=60 \log(f(Y_{10,ann})) \quad Y_{10,ann}=[Y_{10}-50]/50$

$A_{2,10} = 2.5 (a_{2,10} - a_{2,20}) Y_{10}$
 $B_{2,10} = 2.5 B_1 (b_{2,10} - b_{2,20}) Y_{10}$
 $a_{2,10} = a_{20} (1 + (x_{10} - x_*) / y_{10})$
 $b_{2,10} = b_{20} (z_{10} / y_{10})$
 $a_{20} = 1, b_{20} = -0.4$
 $x_* = 0.110, B_1 = 1.300$
 $C_{AB,2,10} = [A_{2,10} + B_{2,10}]^{2/12}$
6 Oswald-Farben (o)

von maximalem (m) $C_{AB,2,10}$ im
 linearen Farbraum $(C_{AB,2,10}^* Y_{10})$

Lichtart P40, $Y_{W,10}=100, Y_{N,10}=50$

Name Bereich $X_{10}, Y_{10}, Z_{10}, x_{10}, y_{10}, z_{10}, x_*, y_*, z_*$
 X_1 492.775 96.57 96.76 34.15 0.4244 0.4253 572.465
 Y_1 492.599 60.14 78.27 64.47 0.3164 0.375 487.997
 Z_1 380.492 56.0 53.38 62.6 0.2561 0.3099 465.572
 x_1 490.492 91.86 75.05 62.6 0.4002 0.3269 535.558
 y_1 380.775 94.81 107.33 0.444 0.3822 0.3756 100%
 x_* 380.775 50.30 50.0 32.22 0.3822 0.3756 50
 z_* 380.775 18.31 18.0 11.16 0.3822 0.3756 18%

$f(Y_{10,ann}) = \pm[1+10|Y_{10,ann}|^n]$
n nähert sich 1 für:
 1. abnehmendem Kontrast C
 2. aneinandergrenzende / separate Farben.

Parameter:
 Y_{10} & Name
 Lichtart P40
 $Y_{W,10}=100, Y_{N,10}=50$

$XZ_{Y_{10}}=111.15, 99.99, 35.19 \quad L_{Y_{10}}=60 \log(f(Y_{10,ann})) \quad Y_{10,ann}=[Y_{10}-50]/50$

$A_{2,10} = 2.5 (a_{2,10} - a_{2,20}) Y_{10}$
 $B_{2,10} = 2.5 B_1 (b_{2,10} - b_{2,20}) Y_{10}$
 $a_{2,10} = a_{20} (1 + (x_{10} - x_*) / y_{10})$
 $b_{2,10} = b_{20} (z_{10} / y_{10})$
 $a_{20} = 1, b_{20} = -0.4$
 $x_* = 0.110, B_1 = 2.500$
 $C_{AB,2,10} = [A_{2,10} + B_{2,10}]^{2/12}$
6 Oswald-Farben (o)

von maximalem (m) $C_{AB,2,10}$ im
 linearen Farbraum $(C_{AB,2,10}^* Y_{10})$

Lichtart A00, $Y_{W,10}=100, Y_{N,10}=50$

Name Bereich $X_{10}, Y_{10}, Z_{10}, x_{10}, y_{10}, z_{10}, x_*, y_*, z_*$
 X_1 498.775 98.89 97.18 18.73 0.4825 0.434 577.469
 Y_1 498.775 60.14 78.27 64.47 0.3164 0.375 487.997
 Z_1 380.575 72.84 79.43 35.21 0.3888 0.4236 493.606
 x_1 498.775 98.89 97.18 18.73 0.4025 0.3623 469.577
 y_1 375.408 96.75 73.17 34.14 0.4711 0.3586 546.546
 z_1 380.775 111.15 99.99 35.19 0.4541 0.4059 100%
 x_* 380.775 55.57 49.99 17.59 0.4541 0.4059 50
 z_* 380.775 20.0 18.0 6.33 0.4541 0.4059 18%

$f(Y_{10,ann}) = \pm[1+10|Y_{10,ann}|^n]$
n nähert sich 1 für:
 1. abnehmendem Kontrast C
 2. aneinandergrenzende / separate Farben.

Parameter:
 Y_{10} & Name
 Lichtart A00
 $Y_{W,10}=100, Y_{N,10}=50$

$XZ_{Y_{10}}=99.99, 99.99, 100.0 \quad L_{Y_{10}}=60 \log(f(Y_{10,ann})) \quad Y_{10,ann}=[Y_{10}-50]/50$

$A_{2,10} = 2.5 (a_{2,10} - a_{2,20}) Y_{10}$
 $B_{2,10} = 2.5 B_1 (b_{2,10} - b_{2,20}) Y_{10}$
 $a_{2,10} = a_{20} (1 + (x_{10} - x_*) / y_{10})$
 $b_{2,10} = b_{20} (z_{10} / y_{10})$
 $a_{20} = 1, b_{20} = -0.4$
 $x_* = 0.110, B_1 = 0.900$
 $C_{AB,2,10} = [A_{2,10} + B_{2,10}]^{2/12}$
6 Oswald-Farben (o)

von maximalem (m) $C_{AB,2,10}$ im
 linearen Farbraum $(C_{AB,2,10}^* Y_{10})$

Lichtart E00, $Y_{W,10}=100, Y_{N,10}=50$

Name Bereich $X_{10}, Y_{10}, Z_{10}, x_{10}, y_{10}, z_{10}, x_*, y_*, z_*$
 X_1 487.775 91.62 96.31 53.24 0.3799 0.3993 568.459
 Y_1 487.561 56.0 53.38 62.6 0.2561 0.3099 465.572
 Z_1 487.561 56.0 53.38 62.6 0.2561 0.3099 465.572
 x_1 487.561 56.0 53.38 62.6 0.2561 0.3099 465.572
 y_1 380.775 99.99 99.99 100.0 0.3333 0.3333 100%
 x_* 380.775 49.99 49.99 50.0 0.3333 0.3333 50
 z_* 380.775 17.99 17.99 18.0 0.3333 0.3333 18%

$f(Y_{10,ann}) = \pm[1+10|Y_{10,ann}|^n]$
n nähert sich 1 für:
 1. abnehmendem Kontrast C
 2. aneinandergrenzende / separate Farben.

Parameter:
 Y_{10} & Name
 Lichtart E00
 $Y_{W,10}=100, Y_{N,10}=50$

$XZ_{Y_{10}}=97.28, 99.99, 116.14 \quad L_{Y_{10}}=60 \log(f(Y_{10,ann})) \quad Y_{10,ann}=[Y_{10}-50]/50$

$A_{2,10} = 2.5 (a_{2,10} - a_{2,20}) Y_{10}$
 $B_{2,10} = 2.5 B_1 (b_{2,10} - b_{2,20}) Y_{10}$
 $a_{2,10} = a_{20} (1 + (x_{10} - x_*) / y_{10})$
 $b_{2,10} = b_{20} (z_{10} / y_{10})$
 $a_{20} = 1, b_{20} = -0.4$
 $x_* = 0.110, B_1 = 0.700$
 $C_{AB,2,10} = [A_{2,10} + B_{2,10}]^{2/12}$
6 Oswald-Farben (o)

von maximalem (m) $C_{AB,2,10}$ im
 linearen Farbraum $(C_{AB,2,10}^* Y_{10})$

Lichtart C00, $Y_{W,10}=100, Y_{N,10}=50$

Name Bereich $X_{10}, Y_{10}, Z_{10}, x_{10}, y_{10}, z_{10}, x_*, y_*, z_*$
 X_1 486.775 97.28 97.28 61.25 0.3587 0.3903 567.461
 Y_1 486.775 97.28 97.28 61.25 0.3587 0.3903 567.461
 Z_1 486.561 57.08 57.08 61.25 0.2948 0.3888 530.530
 x_1 380.561 68.82 80.16 61.25 0.254 0.304 481.993
 y_1 380.486 58.48 58.48 113.13 0.2826 0.2421 461.567
 z_1 486.775 97.28 97.28 61.25 0.3587 0.3903 567.461
 x_* 380.775 97.28 99.99 116.14 0.3131 0.319 100%
 x_* 380.775 88.64 49.99 80.0 0.3131 0.319 50
 z_* 380.775 17.51 18.0 20.9 0.3131 0.319 18%

$f(Y_{10,ann}) = \pm[1+10|Y_{10,ann}|^n]$
n nähert sich 1 für:
 1. abnehmendem Kontrast C
 2. aneinandergrenzende / separate Farben.

Parameter:
 Y_{10} & Name
 Lichtart C00
 $Y_{W,10}=100, Y_{N,10}=50$

$XZ_{Y_{10}}=102.37, 99.99, 81.25 \quad L_{Y_{10}}=60 \log(f(Y_{10,ann})) \quad Y_{10,ann}=[Y_{10}-50]/50$

$A_{2,10} = 2.5 (a_{2,10} - a_{2,20}) Y_{10}$
 $B_{2,10} = 2.5 B_1 (b_{2,10} - b_{2,20}) Y_{10}$
 $a_{2,10} = a_{20} (1 + (x_{10} - x_*) / y_{10})$
 $b_{2,10} = b_{20} (z_{10} / y_{10})$
 $a_{20} = 1, b_{20} = -0.4$
 $x_* = 0.110, B_1 = 1.000$
 $C_{AB,2,10} = [A_{2,10} + B_{2,10}]^{2/12}$
6 Oswald-Farben (o)

von maximalem (m) $C_{AB,2,10}$ im
 linearen Farbraum $(C_{AB,2,10}^* Y_{10})$

Lichtart P00, $Y_{W,10}=100, Y_{N,10}=50$

Name Bereich $X_{10}, Y_{10}, Z_{10}, x_{10}, y_{10}, z_{10}, x_*, y_*, z_*$
 X_1 501.775 98.21 71.48 40.7 0.4345 0.3992 591.464
 Y_1 501.775 98.21 71.48 40.7 0.4345 0.3992 591.464
 Z_1 489.567 60.75 75.24 34.24 0.3388 0.4199 533.530
 x_1 380.567 67.75 75.24 34.24 0.2967 0.3458 484.993
 y_1 380.489 58.03 53.47 78.75 0.305 0.281 461.571
 z_1 501.775 102.37 99.99 81.25 0.3035 0.332 530
 x_* 380.775 102.37 99.99 81.25 0.3609 0.325 100%
 x_* 380.775 51.18 49.99 46.02 0.3609 0.325 50
 z_* 380.775 18.42 18.0 14.62 0.3609 0.325 18%

$f(Y_{10,ann}) = \pm[1+10|Y_{10,ann}|^n]$
n nähert sich 1 für:
 1. abnehmendem Kontrast C
 2. aneinandergrenzende / separate Farben.

Parameter:
 Y_{10} & Name
 Lichtart P00
 $Y_{W,10}=100, Y_{N,10}=50$

$XZ_{Y_{10}}=97.65, 100.0, 118.42 \quad L_{Y_{10}}=60 \log(f(Y_{10,ann})) \quad Y_{10,ann}=[Y_{10}-50]/50$

$A_{2,10} = 2.5 (a_{2,10} - a_{2,20}) Y_{10}$
 $B_{2,10} = 2.5 B_1 (b_{2,10} - b_{2,20}) Y_{10}$
 $a_{2,10} = a_{20} (1 + (x_{10} - x_*) / y_{10})$
 $b_{2,10} = b_{20} (z_{10} / y_{10})$
 $a_{20} = 1, b_{20} = -0.4$
 $x_* = 0.110, B_1 = 0.700$
 $C_{AB,2,10} = [A_{2,10} + B_{2,10}]^{2/12}$
6 Oswald-Farben (o)

von maximalem (m) $C_{AB,2,10}$ im
 linearen Farbraum $(C_{AB,2,10}^* Y_{10})$

Lichtart Q00, $Y_{W,10}=100, Y_{N,10}=50$

Name Bereich $X_{10}, Y_{10}, Z_{10}, x_{10}, y_{10}, z_{10}, x_*, y_*, z_*$
 X_1 501.775 99.99 99.99 99.99 0.3815 0.3992 591.464
 Y_1 501.775 99.99 99.99 99.99 0.3815 0.3992 591.464
 Z_1 486.561 57.2 75.62 62.32 0.2931 0.3875 530.530
 x_1 380.561 67.29 80.17 118.48 0.253 0.304 481.993
 y_1 380.486 59.01 54.65 115.49 0.2879 0.2384 459.566
 z_1 501.775 99.99 99.99 99.99 0.3815 0.3992 591.464
 x_* 380.775 97.65 100.0 118.42 0.3009 0.3163 100%
 x_* 380.775 88.2 50.0 59.21 0.3009 0.3163 50
 z_* 380.775 17.57 18.0 21.31 0.3009 0.3163 18%

$f(Y_{10,ann}) = \pm[1+10|Y_{10,ann}|^n]$
n nähert sich 1 für:
 1. abnehmendem Kontrast C
 2. aneinandergrenzende / separate Farben.

Parameter:
 Y_{10} & Name
 Lichtart Q00
 $Y_{W,10}=100, Y_{N,10}=50$