ΔY und $\Delta Y/\Delta Y_u$ — LABJND-Normfarbwertdifferenz ΔY normiert für ΔY_u

text lightness

$L^*/L^*_u = (t/a)\ \{ \ln (1 + a \cdot Y) - \ln (1 + a \cdot Y_u) \}$ **[1a]**

$L^*/L^*_u = (t/a)\ \{ \ln [1 + b \cdot (Y/Y_u)] - \ln (1 + b) \}$ **[1b]**

text relative lightness

normierte Normfarbwert-*Y*-Differenz **[3e]**

text log(L*/L*u)

$dY/dY_u = (1 + a \cdot Y) / (1 + a \cdot Y_u)$ **[3d]**

text ln(L*/Lu)

text L*/L*u=ex**

hgp20−5a

ΔY und $\Delta Y/\Delta Y_u$ — CIELAB-Normfarbwertdifferenz ΔY normiert für ΔY_u

text lightness

$L^* = s\ (Y/Y_n)^n - d$ **(Y_n=100, Y_u=18, s=116, n=1/3, d=16)** **[1a]**

$L^* = r\ (Y/Y_u)^n - d$ **(r = s $(Y_u/Y_n)^n$=65,49, L^*_u= r − d)** **[1b]**

text relative lightness

$dY = [Y_n/ (n\ s)]\ (Y / Y_n)^{1-n}$ **[2c]**

text log(L*/L*u)

$dY_u = [Y_n/ (n\ s)]\ (Y_u / Y_n)^{1-n} = 1{,}4602$ **[2d]**

text ln(L*/Lu)

$dY / dY_u = (Y / Y_u)^{1-n}$ **[2e]**

text L*/L*u=ex**

$\log(dY / dY_u) = (1-n) \log(Y / Y_u)$ **[2f]**

hgp20−6a

ΔY und $\Delta Y/\Delta Y_u$ — IECsRGB-Normfarbwertdifferenz ΔY normiert für ΔY_u

text lightness

$L^* = s\ (Y/Y_n)^n - d$ **(Y_n=100, Y_u=18, s=100, n=1/2,4, d=0)** **[1a]**

$L^* = r\ (Y/Y_u)^n - d$ **(r = s $(Y_u/Y_n)^n$=48,94, L^*_u= r − d)** **[1b]**

text relative lightness

$dY = [Y_n/ (n\ s)]\ (Y / Y_n)^{1-n}$ **[2c]**

text log(L*/L*u)

$dY_u = [Y_n/ (n\ s)]\ (Y_u / Y_n)^{1-n} = 1{,}1746$ **[2d]**

text ln(L*/Lu)

$dY / dY_u = (Y / Y_u)^{1-n}$ **[2e]**

text L*/L*u=ex**

$\log(dY / dY_u) = (1-n) \log(Y / Y_u)$ **[2f]**

hgp20−7a

ΔY und $\Delta Y/\Delta Y_u$ — TUBsRGB-Normfarbwertdifferenz ΔY normiert für ΔY_u

text lightness

$L^* = s\ (Y/Y_n)^n - d$ **(Y_n=100, Y_u=18, s=100, n=1/ln(10), d=0)** **[1a]**

$L^* = r\ (Y/Y_u)^n - d$ **(r = s $(Y_u/Y_n)^n$=47,48, L^*_u= r − d)** **[1b]**

text relative lightness

$dY = [Y_n/ (n\ s)]\ (Y / Y_n)^{1-n}$ **[2c]**

text log(L*/L*u)

$dY_u = [Y_n/ (n\ s)]\ (Y_u / Y_n)^{1-n} = 1{,}0934$ **[2d]**

text ln(L*/Lu)

$dY / dY_u = (Y / Y_u)^{1-n}$ **[2e]**

text L*/L*u=ex**

$\log(dY / dY_u) = (1-n) \log(Y / Y_u)$ **[2f]**

hgp20−8a

hgp20−7n