

$XYZ_w = 95.0443, 100.0, 108.89$

$a^* = 500 (a' - a'_n) Y^{1/3}$

$b^* = 500 (b' - b'_n) Y^{1/3}$

$a = a_2 [x/y + 1]$

$b = b_2 [z/y + 1/6]^{1/3}$

$a_2 = 1/15 = 0.06666$

$b_2 = -1/12 = -0.08333$

$n = D65$

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Name and spectral range

Rn_0 595_445 YRn_0 570_770

Yw_0 495_445 YGw_0 470_620

Gw_0 445_595 BGw_0 770_570

Optimal colours (o), $Y_w = 100$

of usually 100nm bandwidth for D65

in chroma diagram (A^* , B^*)

