

Colorimetric "Standard data": Television Luminous System TLS00 for CIE lightness $L^*=00$ of black and for illuminant D65

System TLS00

D65 reflection:

$Y_N = 0.0$

$L^*_N = 0.01$

Color i	r^*_{ad}	g^*_{ad}	b^*_{ad}	L^*_{ad}	a^*_{ad}	b^*_{ad}	$C^*_{ab,ad}$	$h_{ab,ad}$	X_{ad}	Y_{ad}	Z_{ad}	x_{ad}	y_{ad}	$Y_{ad}/88.59$
R_d	1.0	0.0	0.0	50.5	76.92	64.55	100.42	40	36.54	18.84	1.71	0.64	0.33	0.2127
Y_d	1.0	1.0	0.0	92.66	-20.69	90.75	93.08	103	68.21	82.19	12.27	0.4193	0.5053	0.9278
G_d	0.0	1.0	0.0	83.63	-82.75	79.9	115.04	136	31.68	63.36	10.56	0.3	0.6	0.7152
C_d	0.0	1.0	1.0	86.88	-46.16	-13.55	48.12	196	47.67	69.76	94.74	0.2247	0.3288	0.7874
B_d	0.0	0.0	1.0	30.39	76.06	-103.59	128.52	306	15.99	6.4	84.21	0.15	0.06	0.0722
M_d	1.0	0.0	1.0	57.3	94.35	-58.41	110.97	328	52.52	25.23	85.89	0.3209	0.1542	0.2848
R_d	1.0	0.0	0.0	50.5	76.92	64.55	100.42	40	36.54	18.84	1.71	0.64	0.33	0.2127
N_d	0.0	0.0	0.0	0.01	0.0	0.0	0.01	0	0.0	0.0	0.0	0.3127	0.329	0.0
W_d	1.0	1.0	1.0	95.41	0.0	0.0	0.01	0	84.2	88.59	96.46	0.3127	0.329	1.0

Colorimetric "Adapted data (a)": Television Luminous System TLS00a for CIE lightness $L^*=00a$ of black and for illuminant D65

System TLS00a

D65 reflection:

$Y_N = 0.0$

$L^*_N = 0.01$

Color i	r^*_{ad}	g^*_{ad}	b^*_{ad}	L^*_{ad}	a^*_{ad}	b^*_{ad}	$C^*_{ab,ad}$	$h_{ab,ad}$	X_{ad}	Y_{ad}	Z_{ad}	x_{ad}	y_{ad}	$Y_{ad}/88.59$
R_d	1.0	0.0	0.0	50.5	76.92	64.55	100.42	40	36.54	18.84	1.71	0.64	0.33	0.2127
Y_d	1.0	1.0	0.0	92.66	-20.69	90.75	93.08	103	68.21	82.19	12.27	0.4193	0.5053	0.9278
G_d	0.0	1.0	0.0	83.63	-82.75	79.9	115.04	136	31.68	63.36	10.56	0.3	0.6	0.7152
C_d	0.0	1.0	1.0	86.88	-46.16	-13.55	48.12	196	47.67	69.76	94.74	0.2247	0.3288	0.7874
B_d	0.0	0.0	1.0	30.39	76.06	-103.59	128.52	306	15.99	6.4	84.21	0.15	0.06	0.0722
M_d	1.0	0.0	1.0	57.3	94.35	-58.41	110.97	328	52.52	25.23	85.89	0.3209	0.1542	0.2848
R_d	1.0	0.0	0.0	50.5	76.92	64.55	100.42	40	36.54	18.84	1.71	0.64	0.33	0.2127
N_d	0.0	0.0	0.0	0.01	0.0	0.0	0.01	0	0.0	0.0	0.0	0.3127	0.329	0.0
W_d	1.0	1.0	1.0	95.41	0.0	0.0	0.01	0	84.2	88.59	96.46	0.3127	0.329	1.0

Colorimetric "Adapted data (b)": Television Luminous System TLS00b for CIE lightness $L^*=00b$ of black and for illuminant D65

System TLS00b

D65 reflection:

$Y_N = 0.0$

$L^*_N = 0.0$

Color i	r^*_{ad}	g^*_{ad}	b^*_{ad}	L^*_{ad}	a^*_{ad}	b^*_{ad}	$C^*_{ab,ad}$	$h_{ab,ad}$	$X_{b,ad}$	$Y_{b,ad}$	$Z_{b,ad}$	$x_{b,ad}$	$y_{b,ad}$	$Y_{b,ad}/88.59$
R_d	1.0	0.0	0.0	50.5	76.92	64.55	100.42	40	36.54(-36.53+0.0)	18.84(-18.84+0.0)	1.71(-1.71+0.0)	0.64	0.33	0.2127
Y_d	1.0	1.0	0.0	92.66	-20.69	90.75	93.08	103	68.21(-68.21+0.0)	82.19(-82.19+0.0)	12.27(-12.27+0.0)	0.4193	0.5053	0.9278
G_d	0.0	1.0	0.0	83.63	-82.75	79.9	115.04	136	31.68(-31.68+0.0)	63.36(-63.36+0.0)	10.56(-10.56+0.0)	0.3	0.6	0.7152
C_d	0.0	1.0	1.0	86.88	-46.16	-13.55	48.12	196	47.67(-47.67+0.0)	69.76(-69.76+0.0)	94.74(-94.74+0.0)	0.2247	0.3288	0.7874
B_d	0.0	0.0	1.0	30.39	76.06	-103.59	128.52	306	15.99(-15.99+0.0)	6.4(-6.39+0.0)	84.21(-84.21+0.0)	0.15	0.06	0.0722
M_d	1.0	0.0	1.0	57.3	94.35	-58.41	110.97	328	52.52(-52.52+0.0)	25.23(-25.23+0.0)	85.89(-85.89+0.0)	0.3209	0.1542	0.2848
R_d	1.0	0.0	0.0	50.5	76.92	64.55	100.42	40	36.54(-36.53+0.0)	18.84(-18.84+0.0)	1.71(-1.71+0.0)	0.64	0.33	0.2127
N_d	0.0	0.0	0.0	0.01	0.0	0.0	0.01	0	0.0(-0.0+0.0)	0.0(-0.0+0.0)	0.0(-0.0+0.0)	0.3118	0.3281	0.0
W_d	1.0	1.0	1.0	95.41	0.0	0.0	0.01	0	84.2(-84.2+0.0)	88.59(-88.59+0.0)	96.46(-96.46+0.0)	0.3127	0.329	1.0

CEI00-7N00

Test chart CEI0; 8 basic colors RYGBMWN_d for TLS00, TLS00a & TLS00b
Calculation of CIE-colour data for sRGB display for 3 reflections

input: rgb
output: →rgb_{ad}