

WGCa data rgb^* , XYZxy, and LabC₃₀ in the CIE LAB-colour space

Tristimulus values of black and white: $Y_N=0.0$, $Y_N=88.6$

rgb^*	CHEXYZ data			L* ₃₀ A ₃₀ B ₃₀ data			C ₃₀ data			h ₃₀ data		
	x_N	y_N	z_N	L^*	a^*	b^*	C_{30}	h_{30}	C_{30}	h_{30}	C_{30}	h_{30}
R ₄₀	100	56.43	23.27	0.08	0.708	0.291	52.34	112.93	90.42	147.16	148	148
G ₄₀	110	62.84	83.34	2.46	0.446	0.537	53.16	-26.53	130.32	133.95	187	187
B ₄₀	110	12.81	60.07	2.46	0.169	0.707	51.87	-116.57	57.79	130.03	153	153
C ₄₀	011	27.77	66.32	96.06	0.416	0.346	85.15	-194.25	-17.67	95.74	109	109
M ₄₀	001	14.06	5.25	94.00	0.130	0.045	27.43	82.75	-115.53	141.0	385	385
N ₄₀	001	71.39	28.52	94.00	0.368	0.147	60.35	125.37	-58.77	138.47	334	334
N ₄₀	001	0.01	0.01	0.01	0.333	0.333	0.09	0.02	0.01	0.02	0	0
N ₄₀	111	84.21	88.09	96.40	0.312	0.329	95.49	-0.00	0.00	0.00	0	0
N ₄₀	000	0.01	0.01	0.01	0.333	0.333	0.09	0.02	0.01	0.02	0	0
N ₄₀	113	95.05	100.00	100.00	0.312	0.329	100.00	0.00	0.00	0.00	0	0
Z ₄₀	0.18	17.11	18.00	19.00	0.312	0.329	49.49	0.00	0.00	0.00	0	0

WGCa data rgb^* , XYZxy, and L*₃₀A₃₀B₃₀ in L*AB/IND-colour space

Tristimulus values of black and white: $Y_N=0.0$, $Y_N=88.6$

rgb^*	CHEXYZ data			L* ₃₀ A ₃₀ B ₃₀ data			C ₃₀ data			h ₃₀ data		
	x_N	y_N	z_N	L^*	a^*	b^*	C_{30}	h_{30}	C_{30}	h_{30}	C_{30}	h_{30}
R ₄₀	100	56.43	23.27	0.08	0.708	0.291	52.34	90.24	23.27	93.19	14	14
G ₄₀	110	62.84	83.34	2.46	0.446	0.537	53.16	-26.23	81.75	93.08	182	182
B ₄₀	110	12.81	60.07	2.46	0.169	0.707	51.87	-116.57	57.79	130.03	153	153
C ₄₀	011	27.77	66.32	96.06	0.416	0.346	85.15	-92.75	-22.27	95.19	109	109
M ₄₀	001	14.06	5.25	94.00	0.130	0.045	27.43	26.23	-81.66	95.20	287	287
N ₄₀	001	71.39	28.52	94.00	0.368	0.147	60.35	116.46	-57.79	130.02	333	333
N ₄₀	001	0.01	0.01	0.01	0.333	0.333	0.09	-0.01	0.00	0.01	0	0
N ₄₀	111	84.21	88.09	96.40	0.312	0.329	95.41	-0.01	0.00	0.00	0	0
N ₄₀	000	0.01	0.01	0.01	0.333	0.333	0.09	0.00	0.00	0.00	0	0
N ₄₀	113	95.05	100.00	100.00	0.312	0.329	100.00	0.00	0.00	0.00	0	0
Z ₄₀	0.18	17.11	18.00	19.00	0.312	0.329	49.49	0.00	0.00	0.00	0	0

WGCa data rgb^* , XYZxy, and L*₃₀A₃₀B₃₀ in L*AB/IND-colour space

Tristimulus values of black and white: $Y_N=0.0$, $Y_N=88.6$

rgb^*	CHEXYZ data			L* ₃₀ A ₃₀ B ₃₀ data			C ₃₀ data			h ₃₀ data		
	x_N	y_N	z_N	L^*	a^*	b^*	C_{30}	h_{30}	C_{30}	h_{30}	C_{30}	h_{30}
R ₄₀	100	56.43	23.27	0.08	0.708	0.291	52.34	83.31	23.27	87.00	18	18
G ₄₀	110	62.84	83.34	2.46	0.446	0.537	53.16	-26.20	88.27	93.08	186	186
B ₄₀	110	12.81	60.07	2.46	0.169	0.707	51.87	-116.23	63.31	130.75	142	142
C ₄₀	011	27.77	66.32	96.06	0.416	0.346	85.15	-92.54	-24.25	95.22	109	109
M ₄₀	001	14.06	5.25	94.00	0.130	0.045	27.43	-26.20	-88.28	93.08	186	186
N ₄₀	001	71.39	28.52	94.00	0.368	0.147	60.35	81.21	-62.94	102.75	322	322
N ₄₀	001	0.01	0.01	0.01	0.333	0.333	0.09	-0.01	0.00	0.01	0	0
N ₄₀	111	84.21	88.09	96.40	0.312	0.329	95.41	-0.01	0.00	0.00	0	0
N ₄₀	000	0.01	0.01	0.01	0.333	0.333	0.09	0.00	0.00	0.00	0	0
N ₄₀	113	95.05	100.00	100.00	0.312	0.329	100.00	0.00	0.00	0.00	0	0
Z ₄₀	0.18	17.11	18.00	19.00	0.312	0.329	49.49	0.00	0.00	0.00	0	0

WGCa data rgb^* , XYZxy, and L*₃₀A₃₀B₃₀ in L*AB/IND-colour space

Tristimulus values of black and white: $Y_N=0.0$, $Y_N=88.6$

rgb^*	CHEXYZ data			L* ₃₀ A ₃₀ B ₃₀ data			C ₃₀ data			h ₃₀ data		
	x_N	y_N	z_N	L^*	a^*	b^*	C_{30}	h_{30}	C_{30}	h_{30}	C_{30}	h_{30}
R ₄₀	100	56.43	23.27	0.08	0.708	0.291	52.34	83.31	23.27	87.04	18	18
G ₄₀	110	62.84	83.34	2.46	0.446	0.537	53.16	-26.20	76.52	95.18	183	183
B ₄₀	110	12.81	60.07	2.46	0.169	0.707	51.87	-116.23	53.34	135.56	148	148
C ₄₀	011	27.77	66.32	96.06	0.416	0.346	85.15	-92.54	-19.40	97.32	109	109
M ₄₀	001	14.06	5.25	94.00	0.130	0.045	27.43	-26.20	-70.62	95.05	268	268
N ₄₀	001	71.39	28.52	94.00	0.368	0.147	60.35	81.21	-50.35	95.56	328	328
N ₄₀	001	0.01	0.01	0.01	0.333	0.333	0.09	0.00	0.00	0.00	0	0
N ₄₀	111	84.21	88.09	96.40	0.312	0.329	95.41	-0.01	0.00	0.00	0	0
N ₄₀	000	0.01	0.01	0.01	0.333	0.333	0.09	0.00	0.00	0.00	0	0
N ₄₀	113	95.05	100.00	100.00	0.312	0.329	100.00	0.00	0.00	0.00	0	0
Z ₄₀	0.18	17.11	18.00	19.00	0.312	0.329	49.49	0.00	0.00	0.00	0	0

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	x_N	y_N	z_N	L^*	a^*	b^*	C_{30}	h_{30}	C_{30}	h_{30}	C_{30}	h_{30}
R ₄₀	100	56.43	23.27	0.08	0.708	0.291	52.34	112.93	90.42	147.16	148	148
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B ₄₀	110	12.81	60.07	2.46	0.169	0.707	51.87	-116.57	57.79	130.03	153	153
C ₄₀	011	27.77	66.32	96.06	0.416	0.346	85.15	-194.25	-17.67	95.74	109	109
M ₄₀	001	14.06	5.25	94.00	0.130	0.045	27.43	82.75	-115.53	141.0	385	385
N ₄₀	001	71.39	28.52	94.00	0.368	0.147	60.35	125.37	-58.77	138.47	334	334
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N ₄₀	113	95.05	100.00	100.00	0.312	0.329	100.00	0.00	0.00	0.00	0	0
Z ₄₀	0.18	17.11	18.00	19.00	0.312	0.329	49.49	0.00	0.00	0.00	0	0

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	x_N	y_N	z_N	L^*	a^*	b^*	C_{30}	h_{30}	C_{30}	h_{30}	C_{30}	h_{30}
R ₄₀	100	56.43	23.27	0.08	0.708	0.291	52.34	90.24	23.27	93.19	14	14
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N ₄₀	111	84.21	88.09	96.40	0.312	0.329	95.41	-0.01	0.00	0.00	0	0
N ₄₀	000	0.01	0.01	0.01	0.333	0.333	0.09	0.00	0.00	0.00	0	0
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	x_N	y_N	z_N	L^*	a^*	b^*	C_{30}	h_{30}	C_{30}	h_{30}	C_{30}	h_{30}
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N ₄₀	001	71.39	28.52	94.00	0.368	0.147						

Diagram illustrating the relationship between various color spaces and the resulting color differences. The diagram shows a network of nodes (G, R, B, C, M, A1) connected by lines, representing the mapping between different color spaces and the resulting color differences.

$$x_N = \frac{1}{3} (x_1 + x_2 + x_3)$$

$$y_N = \frac{1}{3} (y_1 + y_2 + y_3)$$

$$z_N = \frac{1}{3} (z_1 + z_2 + z_3)$$

$$L^* = 116 - 20 f(L^*_N)$$

$$a^* = 50 (f(a^*_N) - f(b^*_N))$$

$$b^* = 50 (f(b^*_N) - f(c^*_N))$$

$$C_{30} = \sqrt{a^{*2} + b^{*2}}$$

$$h_{30} = \arctan(a^*/b^*)$$