

Colorimetric data of six chromatic basic colours $X = RYGBM$ of a device (d) or elementary (e) system					
colori- metric name	family	family member	coordinate kind	coordinate (compare CIELAB $L^*, C^*_{ab}, h^*_{ab}, a^*, b^*$)	coordinate name
standard CIELAB	LAB*	LAB*LCH* _X or LAB*LAB* _X	cylindrical or kartesic	$L^*_X = LAB^*L^*_X$ $C^*_X = LAB^*C^*_{ab,M}$ $H^*_X = LAB^*h^*_{ab,M}$ $A^*_X = LAB^*a^*_X$ $B^*_X = LAB^*b^*_X$	lightness chroma hue angle red green chroma yellow blue chroma
adapted CIELAB (a)	LAB* _a	LAB*LCH* _{a,X} or LAB*LAB* _{a,X}	cylindrical or kartesic	$L^*_{a,X} = LAB^*_aL^*_{a,X}$ $C^*_{a,X} = LAB^*_aC^*_{a,X}$ $H^*_{a,X} = LAB^*_aH^*_{a,X}$	adapted lightness (= L^*_X) adapted chroma adapted hue angle ($0 \leq H^*_{a,X} \leq 360$)
relative CIELAB (r)	lab*	lab*lch* _X or lab*lab* _X	cylindrical or kartesic	$l^*_X = lab^*l^*_X$ $c^*_X = lab^*c^*_X$ $h^*_X = lab^*h^*_X$	relative lightness relative chroma relative hue ($0,00 \leq h^*_X \leq 1,00$)

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Colorimetric data of maximum colours M of a device (d) or elementary (e) system					
colori- metric name	family	family member	coordinate kind	coordinate (compare CIELAB $L^*, C^*_{ab}, h^*_{ab}, a^*, b^*$)	coordinate name
standard CIELAB	LAB*	LAB*LCH* _M or LAB*LAB* _M	cylindrical or kartesic	$L^*_M = LAB^*L^*_M$ $C^*_M = LAB^*C^*_{ab,M}$ $H^*_M = LAB^*h^*_{ab,M}$ $A^*_M = LAB^*a^*_M$ $B^*_M = LAB^*b^*_M$	lightness chroma hue angle red green chroma yellow blue chroma
adapted CIELAB (a)	LAB* _a	LAB*LCH* _{a,M} or LAB*LAB* _{a,M}	cylindrical or kartesic	$L^*_{a,M} = LAB^*_aL^*_{a,M}$ $C^*_{a,M} = LAB^*_aC^*_{a,M}$ $H^*_{a,M} = LAB^*_aH^*_{a,M}$	adapted lightness (= L^*_M) adapted chroma adapted hue angle ($0 \leq H^*_{a,M} \leq 360$)
relative CIELAB (r)	lab*	lab*lch* _M or lab*lab* _M	cylindrical or kartesic	$l^*_M = lab^*l^*_M$ $c^*_M = lab^*c^*_M$ $h^*_M = lab^*h^*_M$	relative lightness relative chroma relative hue ($0,00 \leq h^*_M \leq 1,00$)

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Colorimetric standard CIELAB data and linearly related adapted and relative CIELAB data					
colori- metric name	family	family member	coordinate kind	coordinate (compare CIELAB $L^*, C^*_{ab}, h^*_{ab}, a^*, b^*$)	coordinate name
standard CIELAB	LAB*	LAB*LCH* or LAB*LAB*	cylindrical or kartesic	$L^* = LAB^*L^*$ $C^* = LAB^*C^*_{ab}$ $H^* = LAB^*h^*_{ab}$ $A^* = LAB^*a^*$ $B^* = LAB^*b^*$	lightness chroma hue angle red green chroma yellow blue chroma
adapted CIELAB (a)	LAB* _a	LAB*LCH* _a or LAB*LAB* _a	cylindrical or kartesic	$L^*_a = LAB^*_aL^*_a$ $C^*_a = LAB^*_aC^*_a$ $H^*_a = LAB^*_aH^*_a$	adapted lightness (= L^*) adapted chroma adapted hue angle ($0 \leq H^*_a \leq 360$)
relative CIELAB (r)	lab*	lab*lch* or lab*lab* or lab*tch* or lab*tab*	cylindrical kartesic cylindrical kartesic	$l^* = lab^*l^*$ $c^* = lab^*c^*$ $h^* = lab^*h^*$ $a^*_r = lab^*a^*_r$ $b^*_r = lab^*b^*_r$ $t^* = lab^*t^*$	relative lightness relative chroma relative hue relative a-red green chroma relative b-yellow blue chroma relative triangle lightness
		lab*nch* or lab*nice* or lab*ncu* or lab*tce* or lab*try*	triangle-cylindrical triangle-cylindrical triangle-cylindrical cylindrical kartesic	$n^* = lab^*n^*$ $c^* = lab^*c^*$ $h^* = lab^*h^*$ $e^* = lab^*e^*$ $u^* = lab^*u^*$ $r^* = lab^*r^*$ $y^* = lab^*y^*$ $t^* = lab^*t^*$	relative blackness relative chroma relative hue relative elementary hue text relative elementary hue relative r-red green chroma relative j-yellow blue chroma relative triangle lightness
		lab*rgb*d	kartesic	$r^*_d = lab^*r^*_d$ $g^*_d = lab^*g^*_d$ $b^*_d = lab^*b^*_d$	relative device red relative device green relative device blue
		lab*cmy*d	kartesic	$c^*_d = lab^*c^*_d$ $m^*_d = lab^*m^*_d$ $y^*_d = lab^*y^*_d$	relative device cyan relative device magenta relative device yellow
		lab*rgb*e	kartesic	$r^*_e = lab^*r^*_e$ $g^*_e = lab^*g^*_e$ $b^*_e = lab^*b^*_e$	relative elementary red relative elementary green relative elementary blue
		lab*cmye	kartesic	$c^*_e = lab^*c^*_e$ $m^*_e = lab^*m^*_e$ $y^*_e = lab^*y^*_e$	relative elementary cyan relative elementary magenta relative elementary yellow

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TUB-test chart SE58; Colour coordinates DIN 33872-1
Basic and maximum colours, and colorimetric data

input: w/rgb/cmyk -> w/rgb/cmyk-
output: no change