

Data of Maximum color M in colorimetric system Offset print ORS41_18_96; separation cmy6*, D65 and D50 for input or output; Six hue angles of the 60 degree standard colours s: $h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours d: $h_{ab,d} = 31.4, 96.3, 152.9, 234.1, 298.9, 353.0$; Six hue angles of the elementary colours e: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

Y=J_d Yellow

$LCH^*_{d1} = 90.4 \ 88.7 \ 96.2$
 $LAB^*_{d1} = 90.4 \ -9.7 \ 88.2$
 $rgb^*_{d1} = 1.0 \ 1.0 \ 0.0$

L=G_d Leaf green

$LCH^*_{d1} = 55.6 \ 73.8 \ 152.8$
 $LAB^*_{d1} = 55.6 \ -65.6 \ 33.6$
 $rgb^*_{d1} = 0.0 \ 1.0 \ 0.0$

C=C_d Cyan blue

$LCH^*_{d1} = 62.8 \ 52.1 \ 234.0$
 $LAB^*_{d1} = 62.8 \ -30.5 \ -42.2$
 $rgb^*_{d1} = 0.0 \ 1.0 \ 1.0$

O=R_d Orange red

$LCH^*_{d1} = 48.5 \ 77.5 \ 31.3$
 $LAB^*_{d1} = 48.5 \ 66.2 \ 40.3$
 $rgb^*_{d1} = 1.0 \ 0.0 \ 0.0$

M=M_d Magenta red

$LCH^*_{d1} = 49.6 \ 74.1 \ 352.9$
 $LAB^*_{d1} = 49.6 \ 73.5 \ -9.0$
 $rgb^*_{d1} = 1.0 \ 0.0 \ 1.0$

V=B_d Violet blue (very different to elementary Blue)

$LCH^*_{d1} = 27.4 \ 53.8 \ 298.9$
 $LAB^*_{d1} = 27.4 \ 26.0 \ -47.1$
 $rgb^*_{d1} = 0.0 \ 0.0 \ 1.0$

J_e Yellow

$LCH^*_{e1} = 85.8 \ 83.2 \ 92.0$
 $LAB^*_{e1} = 85.8 \ -2.9 \ 83.1$
 $rgb^*_{e1} = 1.0 \ 0.889 \ 0.0$

G_e Green

$LCH^*_{e1} = 56.6 \ 65.4 \ 162.0$
 $LAB^*_{e1} = 56.6 \ -62.2 \ 20.2$
 $rgb^*_{e1} = 0.0 \ 1.0 \ 0.155$

C_e Blue green

$LCH^*_{e1} = 61.1 \ 49.4 \ 217.0$
 $LAB^*_{e1} = 61.1 \ -39.4 \ -29.7$
 $rgb^*_{e1} = 0.0 \ 1.0 \ 0.789$

B_e Blue

$LCH^*_{e1} = 40.9 \ 45.2 \ 272.0$
 $LAB^*_{e1} = 40.9 \ 1.5 \ -45.2$
 $rgb^*_{e1} = 0.0 \ 0.0 \ 0.387 \ 1.0$

R_e Red

$LCH^*_{e1} = 48.7 \ 73.8 \ 25.0$
 $LAB^*_{e1} = 48.7 \ 66.9 \ 31.2$
 $rgb^*_{e1} = 1.0 \ 0.0 \ 0.173$

M_e Blue red

$LCH^*_{e1} = 37.6 \ 58.6 \ 329.0$
 $LAB^*_{e1} = 37.6 \ 50.3 \ -30.2$
 $rgb^*_{e1} = 0.466 \ 0.0 \ 1.0$

J_s Yellow

$LCH^*_{s1} = 83.9 \ 81.1 \ 90.0$
 $LAB^*_{s1} = 83.9 \ 0.0 \ 81.1$
 $rgb^*_{s1} = 1.0 \ 0.843 \ 0.0$

G_s Green

$LCH^*_{s1} = 57.0 \ 71.9 \ 150.0$
 $LAB^*_{s1} = 57.0 \ -62.3 \ 35.9$
 $rgb^*_{s1} = 0.047 \ 1.0 \ 0.0$

C_s Blue green

$LCH^*_{s1} = 60.5 \ 49.2 \ 210.0$
 $LAB^*_{s1} = 60.5 \ -42.6 \ -24.6$
 $rgb^*_{s1} = 0.0 \ 1.0 \ 0.709$

B_s Blue

$LCH^*_{s1} = 41.9 \ 45.2 \ 270.0$
 $LAB^*_{s1} = 41.9 \ 0.0 \ -45.2$
 $rgb^*_{s1} = 0.0 \ 0.412 \ 1.0$

R_s Red

$LCH^*_{s1} = 48.5 \ 76.6 \ 30.0$
 $LAB^*_{s1} = 48.5 \ 66.4 \ 38.3$
 $rgb^*_{s1} = 1.0 \ 0.0 \ 0.039$

M_s Blue red

$LCH^*_{s1} = 38.0 \ 59.0 \ 330.0$
 $LAB^*_{s1} = 38.0 \ 51.1 \ -29.5$
 $rgb^*_{s1} = 0.48 \ 0.0 \ 1.0$

Notes to the CIELAB chroma diagrams (a^*_{ab}, b^*_{ab}), (a^*_{ab}, b^*_{ab}), (a^*_{ab}, b^*_{ab})

- For the rgb^*_{ab} -input values the CIELAB data LCH^*_{ab} and LAB^*_{ab} have been measured.
- For the calculation of the standard hue angle $h_{ab,s}$ use for any device values rgb^*_{ab} the equation:
 $h_{ab,s} = \arctan \left(\frac{r^*_{ab} \cos(30) + g^*_{ab} \cos(150)}{r^*_{ab} \sin(30) + g^*_{ab} \sin(150)} \right) + b^*_{ab} \sin(270)$ (1)
- For the 48 or 360 equally spaced standard hue angles $h_{ab,s}$ of the colours of maximum chroma use the seven hue angles of the 60 degree colours s: $h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0, 390.0$ ($i=0,5$) and the equations for a 48 and 360 step hue circle:
 $h_{ab,ab,sj} = h_{ab,s1} + j |h_{ab,s1+1} - h_{ab,s1}| / 8$ ($i = 0, 1, \dots, 5; j = 0, 1, \dots, 7$) (2)
 $h_{360ab,sj} = h_{ab,s1} + j |h_{ab,s1+1} - h_{ab,s1}| / 60$ ($i = 0, 1, \dots, 5; j = 0, 1, \dots, 59$) (3)
- For the 48 or 360 elementary hue angles $h_{ab,e}$ of the colours of maximum chroma use the seven hue angles of the elementary colours e: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6, 385.5$ ($i=0,5$) and the equations for a 48 and 360 step elementary hue circle:
 $h_{ab,ab,sj} = h_{ab,s1} + j |h_{ab,s1+1} - h_{ab,s1}| / 8$ ($i = 0, 1, \dots, 5; j = 0, 1, \dots, 7$) (4)
 $h_{360ab,sj} = h_{ab,s1} + j |h_{ab,s1+1} - h_{ab,s1}| / 60$ ($i = 0, 1, \dots, 5; j = 0, 1, \dots, 59$) (5)
- For any elementary hue angle $h_{ab,e}$ there is a well defined device hue angle $h_{ab,d}$ see the following tables, columns 1 to 3.
- The values rgb^*_{ab} produce the output of the device-independent elementary hues