

# Offset $rgb^*$ input data and $LCh^*$ output data

| Color                   | $rgb^*$ | $LCh^*$     |
|-------------------------|---------|-------------|
| $R_e$ elementary red    | 1 0 0   | 47, 74, 26  |
| $Y_e$ elementary yellow | 1 1 0   | 86, 88, 92  |
| $G_e$ elementary green  | 0 1 0   | 53, 57, 164 |
| $B_e$ elementary blue   | 0 0 1   | 42, 45, 271 |
| $N$ black               | 0 0 0   | 18, 0, 0    |
| $W$ white               | 1 1 1   | 95, 0, 0    |

Data according to test chart DIN 33872-2, p.9-12

<http://farbe.li.tu-berlin.de/A/33872E.html>

Elementary-hue angles of CIE R1-47, see

<http://web.archive.org/web/20160304130704/http://files.cie.co.at/526.pdf>

## 9 step offset colours in CIELAB colour space

$LCh^*_W = 95, 0, 0$

$rgb^*_W = 1, 1, 1$

White  $W$

$I^* = 75$

Black  $N$

$LCh^*_N = 18, 0, 0$

$rgb^*_N = 0, 0, 0$

$rgb^*_F = 0, 75, 0, 25, 0$

ICC encoding space

$(C^*_{ab}, L^*)$

$= (142, 100)$

$h_{ab} = 26$

CIELAB lightness  $L^*$

100

9 steps

9 steps

9 steps

red  $R_e$

$LCh^*_R = 47, 74, 26$

$rgb^*_R = 1, 0, 0$

9 steps

100

$C^*_{ab} = 37$

CIELAB chroma  $C^*_{ab}$