

User friendly colorimetric CIE colour notation ice^* and linear relations between rgb^* and CIELAB data

Example for elementary hue red R:

i^* relative brilliance

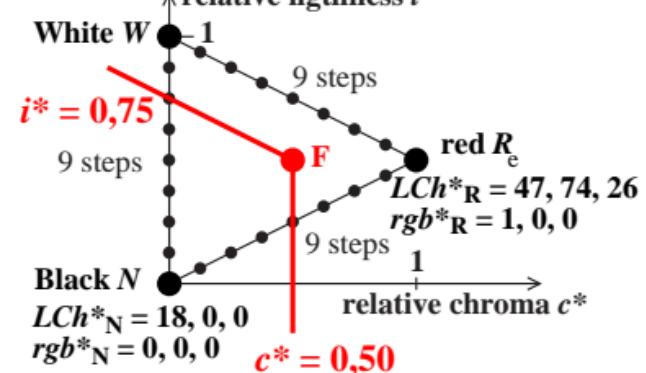
c^* relative chroma

e^* elementary hue value = 0

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

$rgb^*W = 1, 1, 1$

relative ligthness l^*



examples for user colour notation:

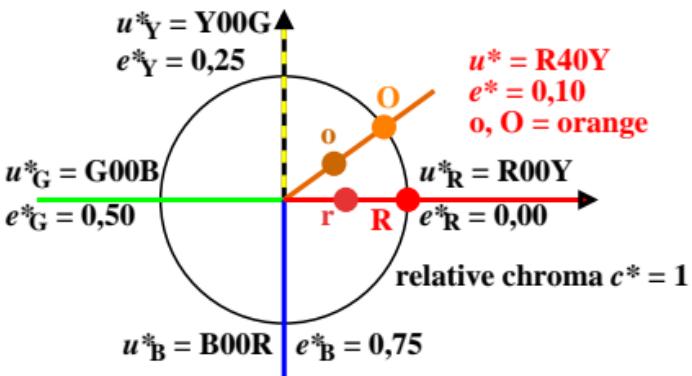
$ice^* = 0,75 \ 0,50 \ 0,00$ or

$rgb^* = 0,75 \ 0,25 \ 0,00$

$L^*=47; C_{ab}^*=75; h_{ab}=26$

$L^*_N=18; L^*_W=95$

Notation of the relative elementary hue e^*



9 step offset colours in CIELAB colour space

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

$rgb^*W = 1, 1, 1$

CIELAB ligthness L^*

White W 100

$I^* = 75$ 9 steps

9 steps

red R_e 100

Black N 0

$C_{ab}^* = 37$ 9 steps

9 steps

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

CIELAB chroma C_{ab}^*