

8 Device (d) colours in CIELAB: *OYLCVM* and *NW*

Hexagon-triangle system based on device (d) colours: $cym_d^* = 1 - rgb_d^* = 1 - a_d^*$ with **linear relations** between cmy_d^* and LCH^*

(compare linear relations between rgb_{sRGB} and L^*)

Equations $rgb^*_d - LCH^*$ in both directions have been published, see:
Richter, CIE-Proceedings, Beijing, 2008, Volume 3 und DIN 33872-1

Three equations (tables) are needed for office applications:

$cm\dot{y}_d - LCH^*$, output a 9x9x9 grid of equally spaced $cm\dot{y}_d$ -input data

$cm y_d^* - LCH^*$ a 9x9x9 grid of equally spaced data $cm y_d^*$ and LCH^*

$cmy'_d - LCH^*$ Device output linearisation by $cmy_d \rightarrow cmy'_d$

