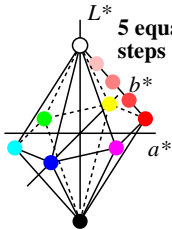# 6 Elementary (e) colours $rgb_d^* = rgb^*$ in CIELAB: RJGB and NW

Hexagon-triangle system based on device (d) colours: $rgb_d^* = olv^*$
with **linear relations** between $rgb_d^* - LCH^*$, and $rgb_h^* - LCH^*$
(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:

$rgb_d - LCH^{*'}$ for a 9x9x9 grid of equally spaced rgb_d-input data

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

$rgb'_h - LCH^*$ *Device output linearisation by $rgb_d -> rgb'_h$*

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