

Three elementary (e) coordinates rgb^*_e describe 8 colours RGB_e , CMY_e , and NW .

Hexagon-triangle system based on elementary (e) colours: rgb^*_e
with **linear relations** between $rgb^*_e - LCH^*_e$

(compare approximately linear relations between rgb_sRGB and L^*)

Equations $rgb^*_e - LCH^*_e$ 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:

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

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

$rgb'^*_e - LCH'^*_e \sim LCH^*_e$ elementary linearization: $rgb_d \rightarrow rgb'^*_e = rgb_{de}$

