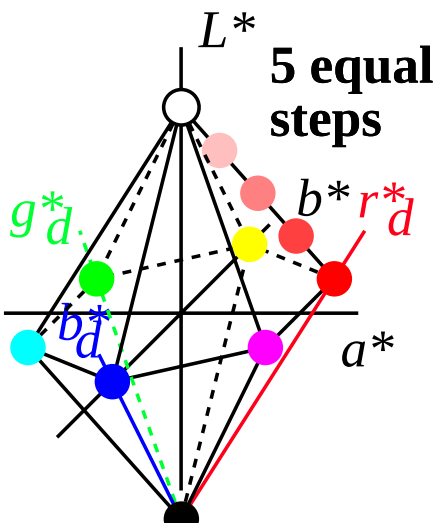
Three device (d) coordinates *rgb$_d$ describe 8 device colours *RGB*$_d$, CMY$_d$, and *NW*.**



Hexagon-triangle system based on device (d) colours: ***rgb****$_d$
with **linear relations** between ***rgb****$_d$ − ***LCH****$_d$
(compare approximately linear relations between rgb$_{sRGB}$ *and L*)*

Equations *rgb**$_d$ − *LCH**$_d$ 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*$_d$ − ***LCH****$_d$ a 9x9x9 grid of equally spaced data *rgb**$_d$ and *LCH**$_d$

rgb'*$_d$ − ***LCH'****$_d$ ~ ***LCH****$_d$ device linearization: ***rgb*$_d$−>***rgb'****$_d$=***rgb*$_{dd}$

SI201-5N