

# Application of colour in daily life or in Information Technology (IT):

**Design, architecture, art, industrial products**  
Measured for CIE standard illuminant D65  
colour order system: name and coordinates

**RAL Design System (CIELAB):**  
*LCH\**, lightness, chroma, hue

**Munsell Colour System:**  
*VCH\**, lightness (Value), Chroma, Hue

**Natural Colour System (NCS):**  
*nce\**, blackness, chromaticness, elementary hue

**New: Application connection by coordinates *olv\**, *cmv\**, *tce\**, ... and linear relation to *LAB\****

CIELAB: *LAB\**: lightness, red-green and yellow-blue chroma; *LCH\**: lightness, chroma, hue

Definition of device coordinates similar to coordinates of colour order systems

*lch\**: relative lightness, chromaticness, hue

*tch\**, *tce\**: triangle lightness, chromaticness, hue or elementary hue

*nce\**: blackness, chromaticness, elementary hue

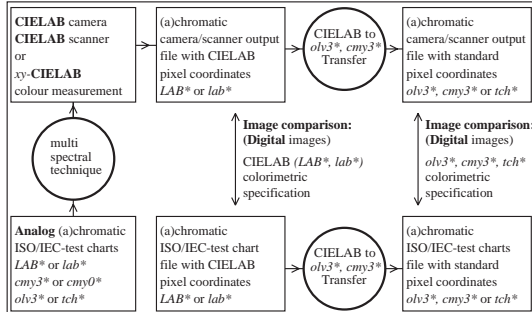
**Information technology of printers**  
Measured for CIE "other" illuminant D50  
Device system name and coordinates:

**Printer system (illuminant D50):**  
*cmv\**, content of "cyan", "magenta", "yellow"

**Display system (standard illuminant D65):**  
*rgb/sRGB*, content of "red", "green", "blue"

*IT colour coordinates confuse the users!*  
*Nearly no connection to colour order systems!*

LE430-3, Application connection with coordinates *olv\**, *cmv\**, *tch\**, *tce\**, *nce\**, ... and linear relationship to *LAB\**



LE430-7, Transfer from device independent data *LAB\** to device dependent data *olv3\**, *cmv3\** and *tch\**

**BAM-test chart no. LE43; IT and CIELAB cameras**  
Colour order systems and device coordinates *olv\**, *cmv\**, *tch\**

input: *cmv0\** setcmvcolor  
output: no change compared to input