

### 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\**, *cmy\**, *tce\**, ... und 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):

*cmy*, content of "cyan", "magenta", "yellow"

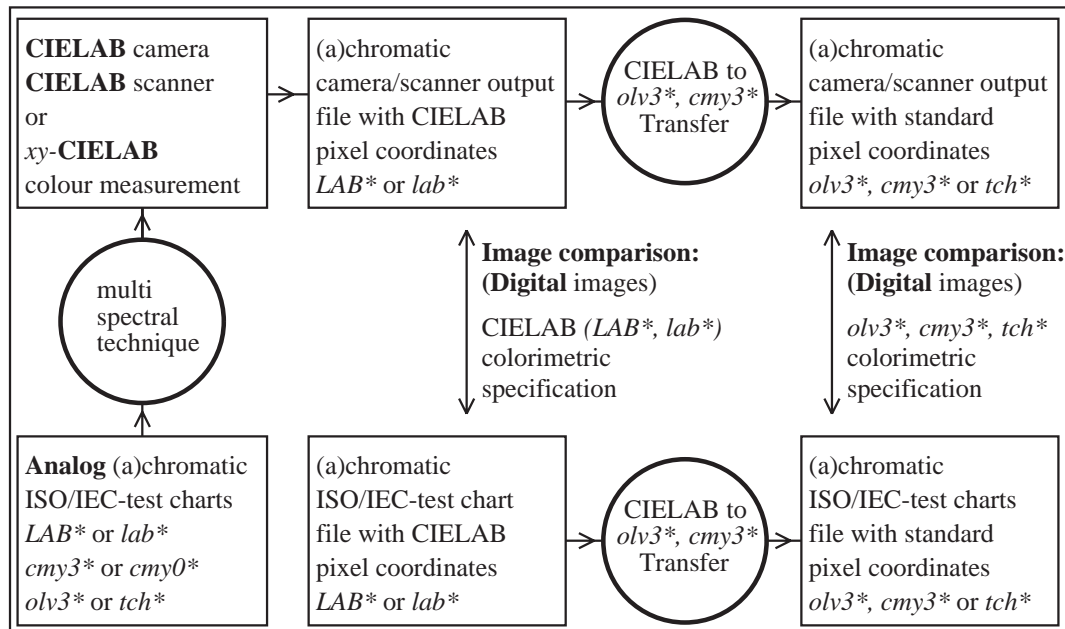
#### Display system (standard illuminant D65):

*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\**, *cmy\**, *tch\**, *tce\**, *nce\**, ... and linear relationship to *LAB\**



LE430-7, Transfer from device independent data *LAB\** to device dependent data *olv3\**, *cmy3\** and *tch\**

BAM-test chart no. LE43; IT und CIELAB cameras

Colour order systems and device coordinates *olv\**, *cmy\**, *tch\**

input: *cmy0\* setcmykcolor*

output: no change compared to input