

Application of colour in daily life and 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):

ncu*: blackness, chroma, elementary hue text

Information technology of printers

Measured for CIE "other" illuminant D50

Device system name and coordinates:

Printer system (illuminant D50):

***cm*y**, content of "cyan", "magenta", "yellow"

Display system (standard illuminant D65):

rgb/sRGB, content of "red", "green", "blue"

IT colour coordinates: undefined for users!

DIN 33872: Relation to colour order systems!

For CIELAB: Definition of relative coordinates lab^* with linear relation to LAB^*

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

Definition of relative coordinates similar to coordinates of the colour order system NCS

lch^* : relative lightness l^* , relative chroma c^* , relative hue $h^* = h_{ab}/360$ of CIELAB

tce^* : triangle lightness t^* , relative chroma c^* , relative elementary hue e^*

ncu^* , icu^* : relative blackness n^* or brilliantness i^* , relative chroma c^* , elementary hue text u^*

De420-7N

BAM-test chart De42; Colour image reproduction
Colour in daily life and in Information Technology (IT):

input: *rgb (-> olv*) setrgbcolor*
output: no change compared to input