

voir des fichiers similaires: http://130.149.60.45/~farbmetrik/SF25/SF25.HTM
 informations techniques: http://www.ps.bam.de ou http://130.149.60.45/~farbmetrik

5 steps of grey series black – white (N _d – W _d)	Colour space, colour space coordinates and PostScript operator calculations according to ISO/IEC 15775:1999-12								
Linear mixture between black and white in CIELAB colour space	relative CIELAB								
	lab*w* _d setgray	lab*000n*_ _d =000n*_ _d 000n*_ _d setcmykcolor	lab*cm*0*_ _d =cm*0*_ _d cm*0*_ _d setcmykcolor	lab*rgb*_ _d =rgb*_ _d rgb*_ _d setrgbcolor					
1,00N _d +0,00W _d (Black N _d)	0,00	0,00 0,00 0,00 1,00	1,00 1,00 1,00 0,00	0,00 0,00 0,00					
0,75N _d +0,25W _d	0,25	0,00 0,00 0,00 0,75	0,75 0,75 0,75 0,00	0,25 0,25 0,25					
0,50N _d +0,50W _d	0,50	0,00 0,00 0,00 0,50	0,50 0,50 0,50 0,00	0,50 0,50 0,50					
0,25N _d +0,75W _d	0,75	0,00 0,00 0,00 0,25	0,25 0,25 0,25 0,00	0,75 0,75 0,75					
0,00N _d +1,00W _d (white W _d)	1,00	0,00 0,00 0,00 0,00	0,00 0,00 0,00 0,00	1,00 1,00 1,00					

SF250-1

5 steps of grey series black – white (N _d – W _d)	Colour space, colour space coordinates and PostScript operator calculations according to ISO/IEC 15775:1999-12								
Linear mixture between black and white in CIELAB colour space	Standard CIELAB			adapted CIELAB			relative CIELAB		
	LAB*LAB*_ _d = LAB*_ _d LAB*_ _d setcolor	LAB*_ _{a,d} = LAB*_ _{a,d} LAB*_ _{a,d} setcolor			lab*ncu*_ _d = ncu*_ _d lab*ncu*_ _d setcolor				
1,00N _d +0,00W _d (Black N _d)	18,01	0,50	-0,40	18,01	0,00	0,00	1,00	0,00	R00Y _d
0,75N _d +0,25W _d	37,35	0,10	0,80	37,35	0,00	0,00	0,75	0,00	R00Y _d
0,50N _d +0,50W _d	56,70	-0,10	2,10	56,70	0,00	0,00	0,50	0,00	R00Y _d
0,25N _d +0,75W _d	76,05	-0,50	-3,40	76,05	0,00	0,00	0,25	0,00	R00Y _d
0,00N _d +1,00W _d (white W _d)	95,41	-0,98	4,76	95,41	0,00	0,00	0,00	0,00	R00Y _d

SF250-3

5 steps of colour series cyan blue – white (C _d – W _d)	Colour space, colour space coordinates and PostScript operator calculations according to ISO/IEC 15775:1999-12								
Linear mixture between cyan blue and white in CIELAB colour space	Standard CIELAB			relative CIELAB			relative CIELAB		
	LAB*LAB*_ _d = LAB*_ _d LAB*_ _d setcolor	lab*cm*0*_ _d = cm*0*_ _d lab*cm*0*_ _d setcmykcolor			lab*rgb*_ _d = rgb*_ _d lab*rgb*_ _d setrgbcolor				
1,00C _d +0,00W _d (cyan blue C _d)	58,62	-30,62	-42,74	1,00	0,00	0,00	0,00	1,00	1,00
0,75C _d +0,25W _d	67,82	-23,21	-30,86	0,75	0,00	0,00	0,00	0,25	1,00
0,50C _d +0,50W _d	77,02	-15,80	-18,98	0,50	0,00	0,00	0,00	0,50	1,00
0,25C _d +0,75W _d	86,21	-8,39	-7,11	0,25	0,00	0,00	0,00	0,75	1,00
0,00C _d +1,00W _d (white W _d)	95,41	-0,98	4,76	0,00	0,00	0,00	0,00	1,00	1,00

SF250-5

5 steps of colour series cyan blue – white (C _d – W _d)	Colour space, colour space coordinates and PostScript operator calculations according to ISO/IEC 15775:1999-12								
Linear mixture between cyan blue and white in CIELAB colour space	adapted CIELAB			relative CIELAB			relative CIELAB		
	LAB*LAB*_ _{a,d} = LAB*_ _{a,d} LAB*_ _{a,d} setcolor	lab*tch*_ _d = tch*_ _d lab*tch*_ _d setcolor			lab*ncu*_ _d = ncu*_ _d lab*ncu*_ _d setcolor				
1,00C _d +0,00W _d (cyan blue C _d)	58,62	-30,34	-45,01	0,500	1,000	0,656	0,000	1,000	G42C _d
0,75C _d +0,25W _d	67,82	-22,75	-33,75	0,625	0,750	0,656	0,000	0,750	G42C _d
0,50C _d +0,50W _d	77,02	-15,17	-22,50	0,750	0,500	0,656	0,000	0,500	G42C _d
0,25C _d +0,75W _d	86,21	-7,58	-11,25	0,875	0,250	0,656	0,000	0,250	G42C _d
0,00C _d +1,00W _d (white W _d)	95,41	0,00	0,00	1,000	0,000	0,000	0,000	0,000	R00Y _d

SF250-7

TUB-test graphique SF25; colour space and coordinates
 5 step colour scales and user friendly coordinates

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

Design, architecture, art, industrial products Measured for CIE standard illuminant D65	Colour Information Technology Measured for CIE illuminants D65 and D50
colour order system; name and coordinates: <i>RAL Design System (CIELAB)</i> <i>L*C*ab*hab</i> , lightness, chroma, hue angle <i>Munsell Colour System</i> <i>VCH</i> , lightness (Value), Chroma, Hue text <i>Natural Colour System (NCS)</i> <i>ncu*_e</i> : relative blackness, relative chroma relative elementary hue text	Device system name and coordinates: Printer system (illuminants D50 or D65): <i>cm*_d</i> , content of "cyan, magenta, yellow" Display system (standard illuminant D65): <i>rgb*__d/sRGB*__d</i> , content of "red, green, blue" <i>No user friendly colour coordinates</i> <i>Nearly no connection to colour order systems</i>

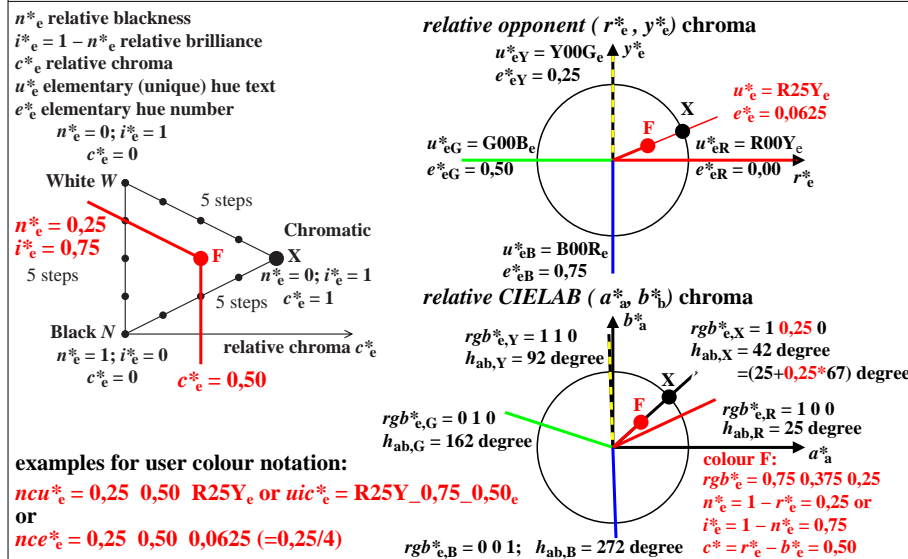
Aim: define user friendly connection

New: Interpretation of the rgb colour data in the range 0 to 1 as elementary colour data rgb*_e

Linear relations between *relative* and *absolute* coordinates *lab*__d* – *LAB*__d* and *lab*_e* – *LAB*_e*
*rgb*__d* – (*L*a*b*C*ab*hab*)_d and *rgb*_e* – (*L*a*b*C*ab*hab*)_e (CIELAB)
*rgb*__d* – *cm*_d*, *rgb*__d* – *cm*_d* and *rgb*_e* – *cm*_e*, *rgb*_e* – *cm*_e* ("1-minus"-relation)
*rgb*__d* – *nce*__d*, *rgb*__d* – *ncu*__d* and *rgb*_e* – *nce*_e*, *rgb*_e* – *ncu*_e*
relative coordinates *lab*_e*: elementary redness *r*_e*, greenness *g*_e*, blueness *b*_e*, blackness *n*_e*
 chroma *c*__d*, elementary hue *e*_e*, elementary hue text *u*_e*

SF251-3

User friendly colorimetric CIE colour notation *ncu*_e* or *uic*_e* or *nce*_e* and linear relation to *rgb*_e* data



SF251-7

entrée: w/rgb/cmyk → w/rgb/cmyk_d
 sortie: aucun changement

TUB enregistrement: 20130201-SF25/SF25L0NA.TXT /.PS
 application pour la mesure de sortie sur écran
 TUB matériel: code=rh4ta