

5 steps of grey series black - white (N - W)	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	L* CIE $w^* = I^*$ setgray	CMYN (CMYK) $000n^*$ setcmykcolor	CMYN (CMYK) $cmy0^*$ setcmykcolor	OLV (RGB) www^* setrgbcolor
1,00 N + 0,00 W (black N)	0,00	0,00 0,00 0,00 1,00	1,00 1,00 1,00 0,00	0,00 0,00 0,00
0,75 N + 0,25 W	0,25	0,00 0,00 0,00 0,75	0,75 0,75 0,75 0,00	0,25 0,25 0,25
0,50 N + 0,50 W	0,50	0,00 0,00 0,00 0,50	0,50 0,50 0,50 0,00	0,50 0,50 0,50
0,25 N + 0,75 W	0,75	0,00 0,00 0,00 0,25	0,25 0,25 0,25 0,00	0,75 0,75 0,75
0,00 N + 1,00 W (white W)	1,00	0,00 0,00 0,00 0,00	0,00 0,00 0,00 0,00	1,00 1,00 1,00

LE420-1, colorimetric relationship of w^* , $000n^*$, $cmy0^*$, www^* for a 5 step scale: black - white

5 steps of colour series black - white (N - W)	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	CIELAB LAB^* (absolute) LAB^* setcolor		CMYN (CMYK) $lab^*cmy0 = cmy0^*$ $cmy0^*$ setcmykcolor	OLV (RGB) $lab^*olv = olv^*$ olv^* setrgbcolor
1,00 N + 0,00 W (black N)	18.01	0.50 -0.40	1,00 1,00 1,00 0,00	0,00 0,00 0,00
0,75 N + 0,25 W	37.35	0.10 0.80	0,75 0,75 0,75 0,00	0,25 0,25 0,25
0,50 N + 0,50 W	56.70	-0.10 2.10	0,50 0,50 0,50 0,00	0,50 0,50 0,50
0,25 N + 0,75 W	76.05	-0.50 -3.40	0,25 0,25 0,25 0,00	0,75 0,75 0,75
0,00 N + 1,00 W (white W)	95.41	-0.98 4.76	0,00 0,00 0,00 0,00	1,00 1,00 1,00

LE420-3, colorimetric relationship of LAB^* , $cmy0^*$, olv^* for a 5 step scale: black - white

5 steps of colour series black - white (N - W)	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	CIELAB absolute LAB^*a (adapted) LAB^*a setcolor		CIELAB relative $lab^*cmy0 = cmy0^*$ $cmy0^*$ setcmykcolor	CIELAB relative $lab^*olv = olv^*$ olv^* setrgbcolor
1,00 N + 0,00 W (black N)	18.01	0.00 0.00	1,00 1,00 1,00 0,00	0,00 0,00 0,00
0,75 N + 0,25 W	37.35	0.00 0.00	0,75 0,75 0,75 0,00	0,25 0,25 0,25
0,50 N + 0,50 W	56.70	0.00 0.00	0,50 0,50 0,50 0,00	0,50 0,50 0,50
0,25 N + 0,75 W	76.05	0.00 0.00	0,25 0,25 0,25 0,00	0,75 0,75 0,75
0,00 N + 1,00 W (white W)	95.41	0.00 0.00	0,00 0,00 0,00 0,00	1,00 1,00 1,00

LE420-5, colorimetric relationship of LAB^*a , $cmy0^*$, olv^* for a 5 step scale: black - white

5 steps of colour series black - white (N - W)	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	CIELAB adapted LAB^*a (adapted) LAB^*a setcolor		CIELAB relative $lab^*tch = tch^*$ tch^* setcolor	CIELAB relative $lab^*ncE = ncE^*$ ncE^* setcolor
1,00 N + 0,00 W (black N)	18.01	0.00 0.00	0,00 0,00 -	1,00 0,00 -
0,75 N + 0,25 W	37.35	0.00 0.00	0,25 0,00 -	0,75 0,00 -
0,50 N + 0,50 W	56.70	0.00 0.00	0,50 0,00 -	0,50 0,00 -
0,25 N + 0,75 W	76.05	0.00 0.00	0,75 0,00 -	0,25 0,00 -
0,00 N + 1,00 W (white W)	95.41	0.00 0.00	1,00 0,00 -	0,00 0,00 -

LE420-7, colorimetric relationship of LAB^*a , tch^* , ncE^* for a 5 step scale: black - white

BAM-test chart no. LE42; colour transfer and workflow
Double cone, hue planes and colorimetric coordinates

5 steps of colour series cyan blue - white (C - W)	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	CIELAB absolute $LAB^*LAB = LAB^*$ LAB^* setcolor		CIELAB relative $lab^*cmy0 = cmy0^*$ $cmy0^*$ setcmykcolor	CIELAB relative $lab^*olv = olv^*$ olv^* setrgbcolor
1,00 C + 0,00 W (cyan blue C)	58.62	-30.62 -42.74	1,00 0,00 0,00 0,00	0,00 1,00 1,00
0,75 C + 0,25 W	67.82	-23.21 -30.86	0,75 0,00 0,00 0,00	0,25 1,00 1,00
0,50 C + 0,50 W	77.02	-15.80 -18.98	0,50 0,00 0,00 0,00	0,50 1,00 1,00
0,25 C + 0,75 W	86.21	-8.39 -7.11	0,25 0,00 0,00 0,00	0,75 1,00 1,00
0,00 C + 1,00 W (white W)	95.41	-0.98 4.76	0,00 0,00 0,00 0,00	1,00 1,00 1,00

LE421-1, colorimetric relationship of LAB^*a , $cmy0^*$, olv^* for a 5 step scale: cyan blue - white

5 steps of colour series cyan blue - white (C - W)	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	CIELAB adapted $LAB^*LABa = LAB^*a$ LAB^*a setcolor		CIELAB relative $lab^*tch = tch^*$ tch^* setcolor	CIELAB relative $lab^*ncE = ncE^*$ ncE^* setcolor
1,00 C + 0,00 W (cyan blue C)	58.62	-30.34 -45.01	0.500 1.000 0.656	0.000 1.000 g21b
0,75 C + 0,25 W	67.82	-22.75 -33.75	0.625 0.750 0.656	0.000 0.750 g21b
0,50 C + 0,50 W	77.02	-15.17 -22.50	0.750 0.500 0.656	0.000 0.500 g21b
0,25 C + 0,75 W	86.21	-7.58 -11.25	0.875 0.250 0.656	0.000 0.250 g21b
0,00 C + 1,00 W (white W)	95.41	0.00 0.00	1.000 0.001 -	0.000 0.001 -

LE421-3, colorimetric relationship of LAB^*a , tch^* , ncE^* for a 5 step scale: cyan blue - white

5 steps of colour series cyan blue - white (C - W)	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	CIELAB absolute $LAB^*LCHa = LCH^*a$ LCH^*a setcolor		CIELAB relative $lab^*tch = tch^*$ tch^* setcolor	CIELAB relative $lab^*ncE = ncE^*$ ncE^* setcolor
1,00 C + 0,00 W (cyan blue C)	58.62	54.29 236.0	0.500 1.000 0.656	0.000 1.000 g21b
0,75 C + 0,25 W	67.82	40.51 236.0	0.625 0.750 0.656	0.000 0.750 g21b
0,50 C + 0,50 W	77.02	27.14 236.0	0.750 0.500 0.656	0.000 0.500 g21b
0,25 C + 0,75 W	86.21	13.57 236.0	0.875 0.250 0.656	0.000 0.250 g21b
0,00 C + 1,00 W (white W)	95.41	0.01 -	1.000 0.001 -	0.000 0.001 -

LE421-5, colorimetric relationship of LCH^*a , tch^* , ncE^* for a 5 step scale: cyan blue - white

5 steps of colour series cyan blue - white (C - W)	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	CIELAB absolute $LAB^*LCHa = LCH^*a$ LCH^*a setcolor		CIELAB relative $lab^*tch = tch^*$ tch^* setcolor	CIELAB relative $lab^*ncE = ncE^*$ ncE^* setcolor
1,00 C + 0,00 W (cyan blue C)	58.62	54.29 236.0	0.500 1.000 0.656	0.000 1.000 g21b
0,75 C + 0,25 W	67.82	40.51 236.0	0.625 0.750 0.656	0.000 0.750 g21b
0,50 C + 0,50 W	77.02	27.14 236.0	0.750 0.500 0.656	0.000 0.500 g21b
0,25 C + 0,75 W	86.21	13.57 236.0	0.875 0.250 0.656	0.000 0.250 g21b
0,00 C + 1,00 W (white W)	95.41	0.01 -	1.000 0.001 -	0.000 0.001 -

LE421-7, colorimetric relationship of LCH^*a , tch^* , ncE^* for a 5 step scale: cyan blue - white

input: $cmy0^*$ setcmykcolor
output: no change compared to input